

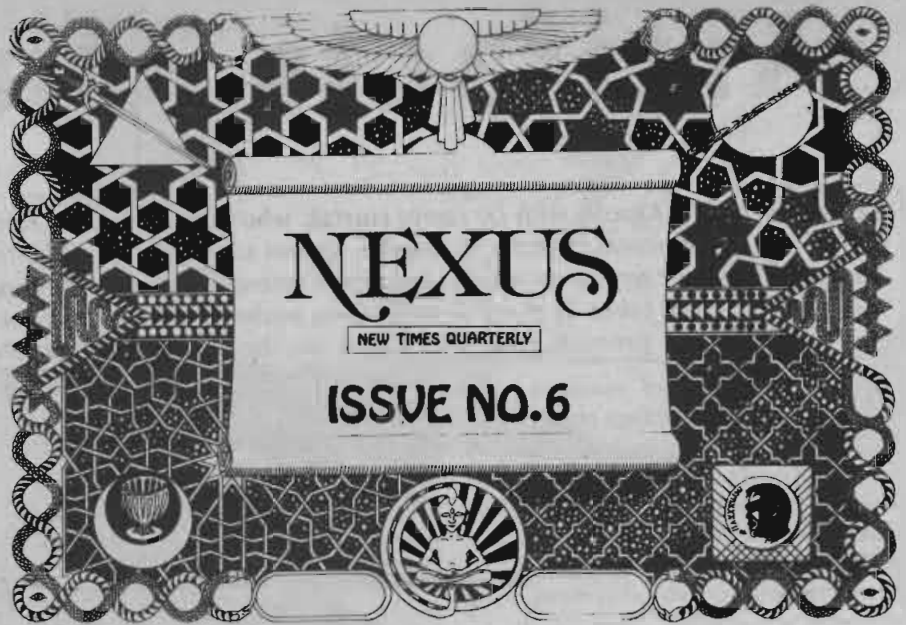
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Artifacts On Mars

by R. H. Ayana

In December 1984 I spoke with Dr James Hurtak, who was touring the world with NASA-documented evidence for monumental artifacts - pyramids, a giant sculpted face and others - on the surface of Mars. The face and other structures were subjected to intense scrutiny and years of computer image-enhancement after they were first taken by Mariner and Viking probes in the 1970s. New analysis of the Viking photographs prompts us to report what may be the unrecognised story of the century...

A large amount of evidence now indicates that strange objects have been photographed on Mars by planetary probes. A Boston scientist has analysed an object on the surface of Mars which resembles a huge human-like face looking into space, and reported last July that it is part of a series of what may well be monumental artifacts.

Mark J. Carlotto, a from Boston-based Analytic Sciences, has analysed photographs of the face or 'Martian Sphinx' - which were shot by the U.S. Viking Orbiter 1 Mars probe in June 1976 - with computerised image-processing techniques.

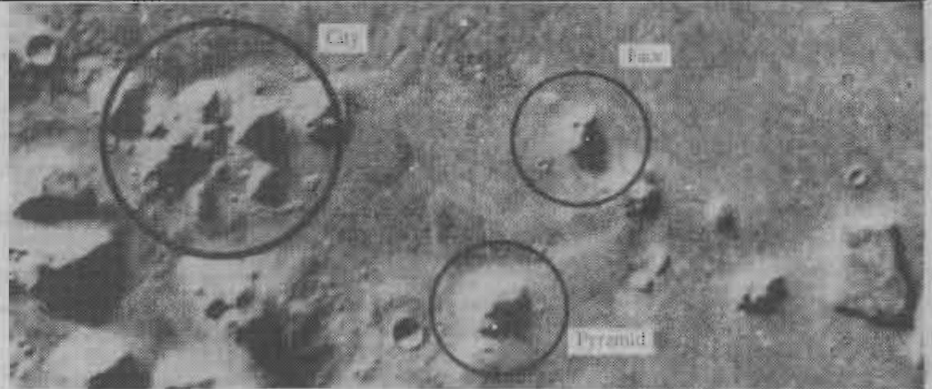
Mr. Carlotto used two methods to analyse the images - analysis of shadows and a projection technique called "shape from shading" which reconstructed the three-dimensional profile of the structure. He also enhanced images of nearby pyramidal features called "the city" which have an unusually regular geometric shape.

Mr Carlotto fed a three-dimensional profile of the structure into a computer which worked out what it would look like from various angles. He found subtle features on the shaded side of the face with a new technique called *local contrast enhancement*;

"The image enhancement results indicate that a second eye socket may be present on the right, shadowed side of the face; fine structure in the mouth suggests teeth are apparent," Mr. Carlotto reported. The "impression of facial features is not a transient phenomenon" but a real object.

The eyes are about 100 metres lower in height than the nose and appear convex. He says that "results to date suggest that they may not be natural".

The original resolution of the Viking camera - 150 metres per pixel, or unit of visual information - has been improved by enhancement to a scale no larger than a small car. We can now take a closer look at massive pyramidal structures on the Martian surface, some a kilometre high.



Evidence Emerges

The 'Sphinx' has been investigated for a decade, but was first dismissed as a trick of the light and gained little recognition from the scientific community. It was originally noted in Viking photograph 70A11 by two researchers from the Goddard Space Flight Centre in Maryland, Vincent DiPietro and Greg Molennar, in 1979.

Suffering early ridicule, they devised a new copyrighted method for increasing the resolution of digital images called *Starburst Pixel Interleaving Technique* (SPIT), which showed clearly-visible eye sockets and an eyeball in the planetary orbiter photographs. They concluded that the "Face on Mars" doesn't seem the product of "totally natural forces. Further investigation seems warranted." But despite the fact that their enhancement techniques were identical to those performed on other NASA photographs, they were further shunned by the scientific community.

Their work was disseminated to the media in 1984. The media didn't know what to do with the story and failed to cover it adequately; but the two researchers are now backed by Dr David C. Webb, PHD, a member of the President's Commission on Space, anthropologist Dr Rafael Pozos, Richard Hoagland (science adviser to Walter Cronkite and deviser of the Pioneer 10 information plaque) and many other scientists and engineers.

Mariners & Vikings

Launched in August 1975, Viking 1 was put into Mars synchronous elliptical orbit to find a safe landing site for Viking-Lander 1. While the latter came down at Kusei-Planetiomom on the 7th anniversary of the first manned lunar landing in June 1976, the Viking Orbiter 1 began to take pictures of the Martian landscape. Along with Orbiter 2, over 54,000 pictures were taken.

Prior to the Viking Orbiter, several Mariner satellites were launched to map the entire Martian surface. One of the Mariner 9 fly-by photographs of the Aleutian Quadrangle in the north-east quadrant of Mars showed a regular arrangement of pyramidal formations.

Mariner 9 fly-bys during February and August 1972 showed distinct pyramidal structures whose angles were clearly defined by reflected light from the Sun. The second fly-by took pictures from a different direction and light angle, eliminating the possibility that the pyramidal shapes were formed by shadow patterns.

These objects are pyramids arranged in a specific pattern, showing a regularity unknown to exist in any natural formation. In the early 1970s, Dr James Hurtak (of the Los Gatos Academy of Future Science) suggested a closer look at the Mariner 9 B-frames DAS 0779453 and DAS 12985AA2, which showed a perfect set of tetrahedron pyramidal structures.

Later Viking photographs (and other Mariner shots) confirm the presence of the objects. Many shots show the formations under radically different light conditions.

The Martian Sphinx

The Sphinx, major pyramids and a right-angle walled 'fortress' are in the Cydonia region of Mars, along the shore of what appears to be an ancient sea or lake. The 'Sphinx' is more than 1,500 metres long, with a height reaching about 550 metres.

Early arguments suggested that the facial symmetry was due to wind formations. But a startling perfection of geometric balance subsequently emerged; particularly human features and facial proportions, architectural symmetry and 'artificial' relation to surrounding structures.

The perfection of symmetry is not visible to the unaided eye or in these photographs (which were taken from altitudes of between 1,000 and 5,000 km), but emerge only after computer enhancement. The Face's brow ridges and nose show detailed alignments with human structure and perfect mouth, teeth, chin and eyes are formed. An iris and lens-like effect resembling a pupil was found in the convex eyes. **The sides of the face show only 2% variance across the entire structure.**

Under the face is what appears to be a supporting platform. **If the face wasn't there we'd still see four sets of parallel lines circumscribing four sloped areas of equal sides. These four equal sides are at perfect right angles to each other, forming a symmetrical rectangle. These features alone indicate a piece of purposefully designed architecture.**

According to Nobel Prize winner Jacques Couard in his book *Chance and Necessity*: "Natural objects never present edges, right angles and exact symmetries; whereas man-made formalities will ordinarily show such features."

Other artifacts revealed by the probes form perfectly straight walls and right-angles, including three major and one minor pyramid formations near the Face.

According to (Col) Jim Shannon, a Pentagon artist with anthropological training, there "is overwhelming evidence that the structure revealed in the photographs... is a consciously created monument typical of the archaeology left to us by our predecessors."

The Pyres Amid

Near the face are two tetrahedral pyramids - one of these is in perfect condition, with ALL sides showing equal length, capable of being inscribed within a perfect circle. This pyramid sits in the centre of a complex of larger and smaller objects showing distinctly *non-random* arrangement - but all are in apparent ruin.

The 'pyramid city' is a collection of large and small features spread over a rectangle of 5 by 8 miles. The 'city' includes a monumental formation showing perfect cutaway right-angle walls. Within the pyramid complex is an unusual area showing a regular room-like honeycomb stretching for a mile. Its relationship to the nearby (8 miles) 'Sphinx' is a geometric crescent arrangement and the face appears in perfect profile from the 'city'. They lie in a narrow band at 41° North, 9.5° West.

Many unusual objects are arrayed in perfectly straight lines at regular intervals extending for miles. **Running from the 'fortress' in a perfectly straight line are four near-identical pyramid-shaped objects spaced exactly six miles apart.**

The tetrahedral pyramids range in base diameter from 3 to 6 kms and are up to 1,000 metres in height, showing a precise symmetry too unique to be natural. Several of the pyramids are on the lips of large craters.

"If we can simply prove that one stone was placed next to another stone in a non-natural way - the whole game of life is changed," says Dr James Hurtak, author of a book on the Martian artifacts.

The tests for life on the Martian surface performed by Viking Landers 1 & 2 did not rule out the possibility of earlier life, according to many scientists. None of the biological experiments - the labeled release experiments, the gas-exchange experiment or the prolytic-release experiment - proved conclusively that life does not exist on Mars even today!

We now know that the reddish colour of Mars is due to large concentrations of iron oxides in the soil - which shows there must once have been fairly high levels of oxygen in the Martian atmosphere.

According to a 1985 report by 83 scientists gathered at NASA's Ames Research Centre, there is satellite evidence that ice, snow, flowing rivers and vast lakes played a major role in shaping the Martian climate and surface. **Large areas of flooding indicated geologically-recent flowing fresh water near the equator.** There is evidence that water ice exists half a mile below the



Martian surface, extending far outside polar latitudes. Water ice at the poles is exposed each summer when its surface layer of CO₂ evaporates; the north pole is now known to be comprised almost entirely of water. Clays and minerals found in the Martian soil by Viking Lander 1's Inorganic Chemical analysis could only have formed in the presence of liquid water.

There is also evidence of a geologically recent Martian 'climate catastrophe' in the Martian soil's chemical composition. One of NASA's Ames group suggested that a large object collided with Mars and blew much of the atmosphere into space, creating the immense Argyre basin.

Riddle of the Sphinx

"The challenge of the face on Mars is not unlike the riddle of the ancient Sphinx," according to Dr Rafael Pozos. "What is it that crawls on four legs in the morning, walks on two at midday, and walks on three in the evening?... To answer the riddle correctly a basic knowledge of our species is necessary. Humans crawl on all fours before they learn to walk on two legs and often need the support of a cane or third leg in old age.

"The ancient hero answers the riddle of the sphinx with one word, *anthropos*, humanity..."

"In many ways the face on Mars is a present day Sphinx... The only problem is that this face is on our neighbouring planet," Dr Pozos writes in his book *The Face On Mars - Evidence for a Lost Civilization?* (1986)

Continued Next Page

Legendary Links

"As humans we are startled by a 'human' face on an alien planet," writes Dr Pozos.

"Threatened by the self-extinction of our species we are further intrigued and alarmed by the discovery of these land-forms on a planet identified with the god of war in the codex of archetypes underlying many of the myth systems created by our species. There is evidence of 'cratering' disproportionate to the surrounding terrain... We perceive pyramidal shapes which evoke the largest monumental structures known on our planet which were associated with highly developed forms of intelligence on our own planet but which are still shrouded in mystery."

The isotopes Iodine 129, Xenon 129, Carbon 15 and others, which were found in unusually high concentrations in the soil of Mars by the Viking-Lander, indicate some sort of 'nuclear event' may have taken place in the past. This may also have resulted from massive plasma discharges and/or meteoric bombardment. But ancient legends of 'war' in heaven may be ethno-centric and erroneous; even mating can seem violent to a child.

"The face on Mars could be either the tombstone of a dying civilization or the stepping stone to a higher civilization in space," says Dr Hurtak.

Earth Links

Dr James Hurtak has made extensive personal investigation of pyramid sites across the world over the last decade and a half. He was one of few scientists invited to investigate recently-discovered pyramids in the Brazilian forests and is a Professor of Anthropology and Oriental Studies.

Dr Hurtak organized a team, aided by former president Sadat of Egypt, which brought lasers to Gizeh to check the alignments of the pyramids. Hurtak points out that the ancient Arabic for Gizeh and the Cairo area was "El Kahire", which means *Those of Mars*. The team found relationships evident between the Great Pyramid and the pyramidal formations on Mars; the Alpha angles (the relationship of the apex to the base) and the circumference arc showed extraordinary correspondence that "defies happenstance creation".

He claims there are also mythic connections between the planet Mars and pyramids found in the Xingian Province of China and pyramids built in Peru, as well as in Mexico and Egypt.

"We have found in Ticul 12 major



photo courtesy M. J. Carlotto/TASC

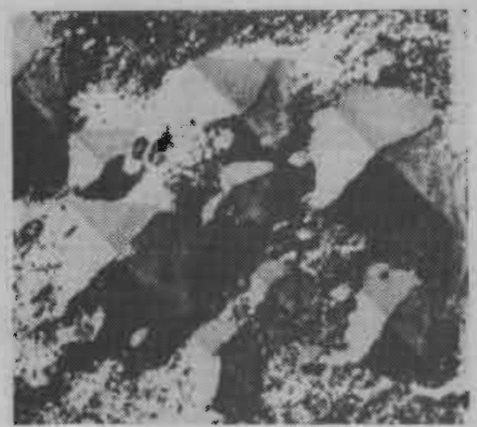
pyramids also showing alignments with (those on) Mars in their design and mathematics. In Western Brazil and Ecuador my colleagues and I were able to enter one of the labyrinthine systems connected with one of the pyramidal zones. We found that the pyramids were uniquely connected by underground passageways that ran for hundreds of kilometres...

"A few years ago, two colleagues of mine had the opportunity to probe off the west coast of Florida with the late Wernher Von Braun, where they discovered three pyramids on the ocean floor. My colleagues returned with verification; clear-water photographs of the structures. There on the ocean floor was a geometry we now associate with Mars - three pyramids or stars in a triangle." These Caribbean pyramids have been documented by other researchers and US sonar surveys.

Mars Missions

In December 1984, as clear photographs first appeared, the Soviets announced their current unmanned *Phobos* Mars mission.

In January 1985, NASA's budget requests included funding for a Mars Observer to be launched in August 1990.



At the Moscow summit last May, Soviet leader Mikhail Gorbachev asked President Ronald Reagan to approve a joint unmanned flight to Mars as a symbol of super-power co-operation.

"Let us co-operate to master the cosmos, to fulfil big programmes... worthy of the Soviet and American peoples."

Back in December 1984, Dr Hurtak made the same suggestion;

"Although I do not believe that any similar life-forms presently exist on the planet Mars, I do feel there is a possibility that there was a previous civilization that may have existed on the planet before climatic change...

"Mars should be seen as a platform for mutual teamwork that can unite our two countries and all the countries of our planet. The knowledge revealed by even an unmanned expedition to Mars would be non-political and could reduce the "Star Wars" scenario.

"Confirmations of these unique landscape formations could even lead to global understanding on Earth... our next choice in our priorities for encountering Mars is not one so much of technology, but that of consciousness-sharing.

"Having outlived our myths we will become new citizens of the universe." Δ

Linguistic Clues

Dr Hurtak's researches have taken him into the realms of linguistic clues hidden in our myths.

"It is remarkable that in the ancient cuneiform, Sumerian and Oriental languages there is a syllable with the consonant value M-R, which is found everywhere in connection with the planet Mars and its associated emblem, the dragon. The source of all these words is to be found in the Semitic root 'Mara' (written M*R) which in Hebrew means 'bitterness'. In the cuneiform text you see these wedge-like forms with three stars. From this root is derived the word for rebellion which is the original name of Nimrod (Nin Mer Rood N*M*R - 'Reddish' builder of the Tower of Babel) as well as Marduk (The Babylonian Creator).

In Greek tradition and the Semitic of the Near East, the people of Atlantis were called *Merodes*, descendants of Meru or Merod. The Nubians told of an island called Meru, where pyramids were built by a race of red men. This legend came to the Hindus as Mount Meru (or M*R), a five-sided mountain from which the heavens were suspended with the Pole Star at its apex. This is why many Asian temples are built as a mountain with a flame at the summit.

"Tibetan legend tells of the fall of a land of seven cities by earthquakes and eruptions at the fall of the star Bel or Mars..."

A land of seven cities was ruled over from Mt Meru by the Hindu rain god Indra.

Other examples are too numerous to list here.

Befuddled Biologists

Biologists "will have to abandon two centuries of observation and rational thinking about biology, because this can't be explained by ordinary physical laws." Paul Newmark, deputy editor of prominent British medical journal *Nature*, was referring to new findings which show that the body's immune system functions in a way no-one can explain.

Solutions of human antibodies somehow continue to work even when all the antibody molecules have been removed from them; the solution keeps reacting with specific blood cells even when no antibodies are present.

There is no known physical reason for this; it indicates there is some unknown way the solution 'remembers' the presence of antibody molecules and acts as if they were still there.

"This has really shaken up our world," said Patricia Fortner, immunology research associate at the University of Toronto. "Even people who have seen this phenomenon find it hard to believe, because it's hard to conceive what could be happening here."

In about 70 different trials conducted in several different labs (all with various scientific controls) over the course of a year, no way has been found to challenge the original experiment, which seems to back up the concepts behind homoeopathy. Homoeopathic remedies are used in extremely small doses and fine dilutions and must be vigorously shaken or 'potentised' before they will work. It was found that the 'homoeopathic' human antibody solution must also be shaken for about 10 seconds or the experiment will fail. If the solution is heated or frozen, the experiment will also fail.

The report was presented by reputable researchers from Canada, France, Israel and Italy and was chiefly authored by Dr J. Beneviste of the French Medical Research Council. *Nature* printed the story with an unprecedented disclaimer, saying that while they (and the researchers themselves) disbelieved the findings, they felt bound to publish them as they couldn't be refuted.

"We couldn't find anything wrong," Mr Newmark said.

- *Nature* (July), AP



Genetic Stream Thins

Plants used to produce 25% of all Western medicines are under threat of extinction, according to the World Health Organization (WHO) and international conservation groups.

At a week-long conference earlier this year in Chiang-Mai, Thailand, doctors and scientists from the U.S., Europe and Asia heard that 80% of the world's population still relies exclusively on medicinal plants for their well-being - plants which are rapidly disappearing along with their surrounding ecosystems.

"Perhaps it is among the species that have gone forever that major anti-cancer and anti-AIDS compounds might have been found," said Professors Norman Farnsworth and Djaja Soejarto from the College of Pharmacology at the University of Illinois in Chicago. They claim that potentially valuable plant species are dying out at the rate of two per day.

The conference was told that up to 70,000 plants are used in traditional medicines worldwide, but by the year 2050, 60,000 species - or 25% of those which remain - are expected to be wiped out by humanity.

The WHO is also calling for countries to place more emphasis on these traditional medicines, many of which are collected, not cultivated. The U.S. National Cancer Institute is searching the world's tropical rainforests for medicinal plants; most of these have not yet been tested in the West, where temperate plants provide the ingredients for most phar-

U.S., S.U. & THEM

President Reagan told Mikhail Gorbachev that the US and Soviet Union could easily forget their differences if space visitors attacked Earth.

Reagan told of the Geneva conversation at Fallston High School in Maryland.

"I couldn't help but say to him, just think how easy his task and mine might be in these meetings that we held if suddenly there was a threat to this world from another species from another planet outside in the universe," Reagan said after addressing students.

AAP

maceuticals. Some tropical species of major medicinal importance, including quinine and cocaine, can't be substituted by synthetic compounds.

Farnsworth and Soejarto call for a "massive screening programme" of tropical plants; "Despite its alarming rapid depletion rate, the tropical rainforests still represent a great storehouse of medicinal genetic resources which may yield important drugs.

"Because of the large number of species which are projected to become extinct within a decade or so... urgent measures must be taken to uncover and exploit fully the potential value of the rainforest species."

The conference was organised by the WHO, the International Union for the Conservation of Nature, the World Wildlife Fund, two U.N. agencies and the Thailand government.

Professor John Considine, a horticulturist from Murdoch University, told the recent ANZAAS congress that agronomists and Aborigines should work together to demonstrate the usefulness of native foods.

"Australian natural plant resources are distinguished from those of other lands not by their innate worth but by the lack of effort devoted to domesticating and formalising the harvesting of that resource," he said, adding that there's market potential for our unique native food crops, essential oils, pharmaceuticals, forage plants and floriculture.

NORTH SEA GASPING

The North Sea, once one of the world's richest fishing grounds, faces a total ecological crisis due to humanity's mismanagement. If industrial, nuclear and agricultural waste dumping continues, the North Sea will itself become toxic.

Many of Europe's most polluted rivers flow into the North Sea. Waste dumping and oil and gas drilling are also taking their toll.

A lethal carpet of yellow-green algae 20km wide and 100km long has been killing fish from Bergen in Norway to Gothenburg in Sweden. The algae coats fish in slime and suffocates them - in some areas all marine life has disappeared to a depth of 10 metres. Almost all marine life off southern Norway is dead. The algae is lethal in concentrations of three million parts per litre; present concentrations around Norway range from 5 million to 30 million per litre. The slime is thought to be due mainly to nitrogen runoff from fertilizers and uses up oxygen to grow.

In less than a month early this year, 306

dead seals were washed up on the west German coast. Dutch scientists have discovered a fierce virus may be responsible for the mysterious deaths of almost 2,000 north European seals from April to July.

Jens Enemark, Danish head of the combined Dutch, West German and Danish Waddings Sea Secretariat in Wilhelmshaven put the seal death toll in these areas at 1,800.

"But the number is rising every day and there is little hope of stopping the epidemic," he said. The seals are succumbing to viral pneumonia and a virus which attacks their intestines. Dutch virologists have also found widespread evidence of herpes in the seals. The intestinal virus is very aggressive. "It starts off in the intestines and virtually eats its way through to other vital organs," Mr Enemark said.

It's likely that this massive viral infection is due to a total immune breakdown in the seals - due to a toxic, stress-filled environment caused by human pollution. *Reuter*



Stonehenge Riot (again)

Police clashed with thousands of rainbow warriors representing a broad spectrum of British society last (northern hemisphere) Summer Solstice. In the most serious confrontation at the Stonehenge megalith circle, where there is a ban on 'unlicensed' congregation, hundreds of police clashed with 3,000 people encamped around the site, resulting in 9 serious injuries and 67 arrests.

While the battle raged with bottles and rocks pelting police in riot gear, a police helicopter hovered overhead and thousands chanted "We want the stones," a group of white-robed Druids conducted their Solstice celebration.

"This is one of the saddest days of my life," said Chief Druid Tim Sebastian. "We must, all of us, work to see that such appalling

scenes of desecration and mayhem are never allowed to happen again."

The annual public congregations at the fenced-off site, surrounded by motorways and army bases, were banned in 1985. An annual walk from London to Stonehenge attracts many people from all walks of life each summer, including heavy representation by pagans, anarchists and flower children.

A month before the Solstice a stone slab was discovered in the Daugleddau River near Haverfordwest, Dyfed, in Wales which is believed to have been intended for use at Stonehenge in Salisbury. The dolomite slab is believed to have been lost while being transported by river from Cairn Meini on the Preseli Hills, 135 miles from Stonehenge.

AP, London Observer

FOOD IRRADIATION

World-wide resistance to food irradiation is growing. The British Government decided last February to maintain a ban on irradiation of food until there is sufficient consumer protection and last year the European Parliament refused to approve its clearance. The European Committee for Food called for a general ban because there was no proof of safety to health or the environment. Last December the International Organization of Consumer Unions called for a world-wide moratorium until nutrition, safety, labeling and detection issues are resolved. In February the UK Government admitted there isn't enough data on irradiation effects on food additives, contaminants, pesticide residues or packaging materials.

It appears that the World Health Organization (WHO) has relied largely on information provided by nuclear industries for its assessment of food irradiation.

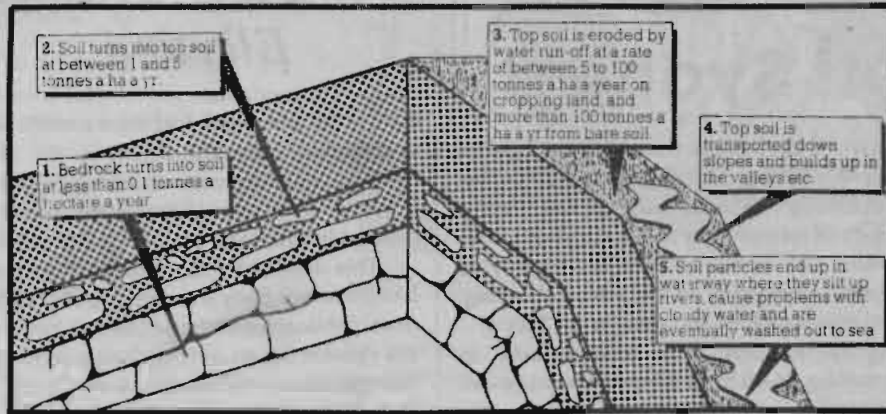
"It could be one of the greatest con jobs we have seen," said Keith Wright, chairman of the ALP Caucus committee on consumer affairs. "The nuclear industry is arguing in favour of irradiation, using the WHO report as the basis for saying it's safe, whereas WHO relied on information from the nuclear industry in the first place." The Joint Expert Committee on Food Irradiation of the International Atomic Agency and the Food and Agricultural Organization used the WHO document to paint a rosy picture of food irradiation.

The Caucus committee has passed a broadly supported resolution calling on the WHO to produce a new scientific report which covers toxic effects of irradiated food.

Meanwhile, a Melbourne food-processing company was named in Parliament in late May as having distributed a leaflet leaked to *The Australian* advertising food irradiation as one of its services. Cotter Food Services Pty Ltd was alleged to have offered its clients irradiation of freeze-dried chicken meat, saying "gas or gamma sterilisation is available on request". The company, which has given evidence to a House of Representatives standing committee about the banning of food irradiation, denied offering irradiation or printing of the leaflet and said they didn't know its source.

Mr Wright said there's every reason for Australia to say no to irradiation and that we, Canada and New Zealand should stop proliferation of food irradiation to the Third World.

Australia is in a unique position to persuade the WHO to stop food irradiation; an influential marketing conference sponsored by the International Atomic Energy Authority is being held in Australia in December.



Soils Ain't Soils

Farmers who cause soil erosion and salt problems on other properties should be penalised on a 'polluter pays' basis, according to the Federal National Soil Conservation Program.

A Federal tax on soil degraders has been proposed by Dr David Oram of Melbourne's La Trobe University. Water and wind-induced soil erosion costs Australia an estimated \$2 billion a year in lost production.

Dr Oram also urged the Soil Conservation Program to give farmers direct Federal subsidies to encourage responsible land use, like the tax concessions now available for fencing, damming and contour construction.

Salinity is caused by the removal of trees from upper catchment areas and their replace-

ment by shallow-rooted crops. More water percolates through the soil and raises the natural saline water-table throughout the catchment area. Farmers who cause salination are often unaffected by the problem themselves.

"But farmers further down the slope of the water-table are already paying a big price in terms of lost land, downgraded capital values and foregone production," said Dr Oram.

"Taxes or levies are unpleasant, but those causing the problem are rarely affected by it."

The Federal Government is spending \$47 million to combat salination and erosion in the next 3 years and predicts that the Murray-Darling Basin could be a desert within a century. The Basin covers about one-seventh of

Australia and contributes 30-40% of our total rural production. Salination of the Murray already costs the economy an estimated \$215 million a year, according to the Minister for resources, Senator Cook.

In just 5 years from 1982 to 1987 the area of salinity seepage there doubled to an estimated 10,000 hectares.

Soil Erosion

Soil erosion has been described as the nation's major agricultural problem by the Federal minister for Primary Industry, Mr Kerin. Sloping land with less than one metre of soil is most at risk of soil erosion, according to the National Soil Conservation Program. Many farms in northern NSW are losing soil at 10 tonnes a hectare annually; more than 100 times faster than the soil is naturally replaced.

A study based on trials at six NSW rural centres found that nearly all farms were losing soil faster than it was being replaced.

"Some of our farms could be unproductive in less than three generations from now," said NSW Soil Conservation Service researcher Keith Edwards, the study's author.

"That isn't very long when you consider that many of them have only been in use for 40 to 50 years.

"... a property can suffer little or no soil loss for several years and then lose more than 100 tonnes a hectare in one rainstorm." Mr Edwards claims that many farmers are reluctant to adopt simple soil conservation methods like leaving cereal stubble on paddocks during high rainfall periods.

News from Space

Mars Probes

The USSR has launched two unmanned probes to Mars. *Phobos I & II* were launched from the Baikonur Space Centre five days apart in July for a journey lasting about 200 days.

"The goal of the mission is to explore Mars and its satellite Phobos, the Sun and interplanetary space," according to *Tass*. The probes are planned to come within 50 metres of Phobos and each lower a landing craft.

One probe will move around in 20 metre hops while the other will remain anchored to the surface.

They will also conduct detailed mapping of the Martian surface and atmosphere.

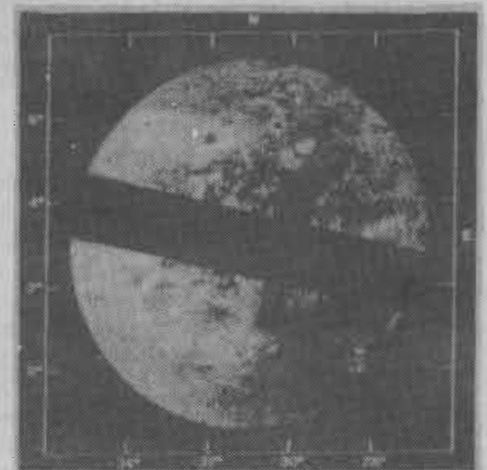
The next unmanned Soviet flight is planned for 1996-98, which is expected to bring back Martian rock samples.

Venus Mapped

Exactly ten years after the US launched a Pioneer probe to orbit the planet Venus, American scientists have published new Earth-based radar pictures which show what are probably lava flows, craters and volcanic mountains. It seems that Venus has volcanoes like Earth and Mars, despite its radically different, thick acidic atmosphere. Some shapes are highly reflective, suggesting the presence of iron pyrites and other metallic minerals. The largest of these masses is 560 km long. These metals deteriorate over time, so Venus has either had very recent and massive vulcanism - or the surface is much younger than expected.

The planetary orbiter has mapped over 90% of Venus' surface, revealing 10,000 metre mountain peaks and is expected to continue functioning until 1992.

Agence France-Presse



Oil Drilling Off Sydney!

The NSW and Federal Governments have allowed oil exploration drilling off the coast between Newcastle and Wollongong. Santos Ltd and Ampol Exploration have been granted permits to drill 9,360 square kilometres of seabed inside and outside the three-mile limit. Natural gas has recently been found onshore in the area.

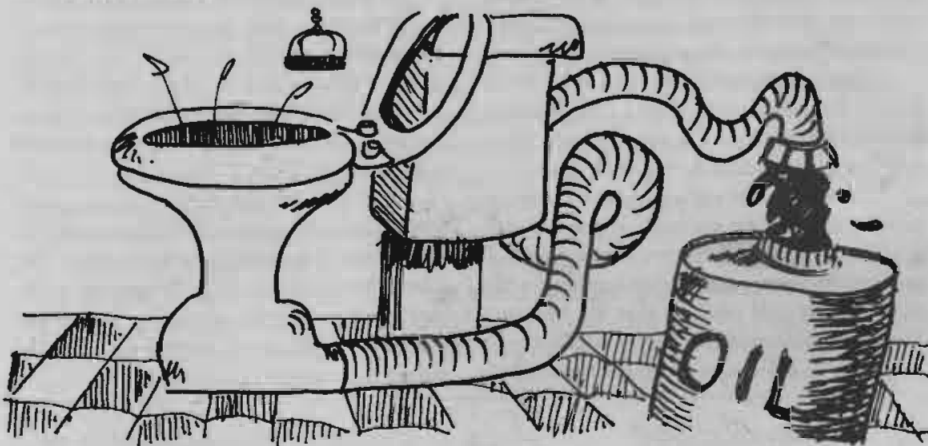
"Any plan to explore and drill for oil next to the most heavily used beaches in Australia is totally unacceptable," said Milo Dunphy of Sydney's Total Environment Centre.

"A major blow-out could coat the coastline in oil." He said seismic testing alone could disrupt whale migrations and drive away dolphins and fish.

Adelaide-based Santos said the first three

years of exploration would involve seismic surveys (interpretation of shockwaves from explosions on the sea bed), followed by two years of seismic tests and the drilling of two wells. Oil would be pumped directly to Sydney, according to Dr John Armstrong, executive exploration manager for Santos.

Sydneysiders have become used to watching an oil rig drilling new sewage outfalls off their beaches for months. If we are to use oil at all, we must consider where it comes from and accept it in our own front yard - or use viable alternatives which are now becoming publicly available. Otherwise, Australia faces an oil deficit of \$22 billion by the year 2000 and our environment will continue to break down. see map



Sewage to Black Gold

A treatment plant has opened in Perth which turns human sewage into oil. In a pilot exercise for what may become an Australia-wide scheme, sewage sludge - the slimy solid substance left after sewage treatment - is transformed into diesel oil.

The facility, designed by Campbell Environment Ltd (CEL), mimics and accelerates the natural formation of oil at the West Australian Water Authority's sewage treatment plant. The plant takes under 24 hours to make oil suitable for low-speed diesel engines.

Processing 50 tonnes of sludge would be worth \$12 million a year, and NSW State Minister for the Environment Mr Hodge says the plant could solve the problem of safe sludge disposal. Most sludge is now incinerated as other disposal methods are too hazardous.

CEL is looking at the possibility of incorporating the plant into Canberra's 50 tonne-a-day sludge incinerator.

"It is estimated the oil-from-sludge technology produces 300 litres of fuel per tonne of sludge. Thus a sizable portion of a plant's operating costs can be recovered," said CEL director Mr Brindal.

In the conversion process water is first removed, the solid is heated to 450 degrees C in an oxygen-free environment and the gases produced are condensed and converted into oil. The remaining solids form a char; the process imitated and speeds up natural processes.

"A further by-product of the process is char, similar to coal, which can be used to run the process or can be sold," said Mr Brindal.

The Australian

Computer Crashes Election

The computer which had been specifically designed to count the ballots in the July Mexican elections crashed, taking the election with it. Results of the polls have been delayed indefinitely.

This didn't stop the ruling Institutional Revolutionary Party from making their traditional public announcement that they had won the election by an overwhelming majority. The opposition coalition has claimed "a fraud of major proportions."

The Guardian

Mayan Codex Decoded

The writing system of the ancient Mayans has finally been decoded by a West German archaeologist, Wolfgang Gockel.

Gockel claims to have decoded the ancient pictographs which portray humans, animals and apparently abstract patterns. He says they describe the power struggles, sexual intrigues, wars and natural disasters in a highly structured and sophisticated society.

The decoded writings come from the town of Palenque in South Mexico, which was a powerful city-state 1300 years ago. Most of the writings are concerned with the lives of rulers who had titles such as "Lord of Time" and "Holder of True Power" and historical dates were carefully noted. Purification by fasting and abstention from sex for several days, followed by body piercing to draw sacrificial blood are also described.

The Mayan culture was crushed by the Spanish in the 17th Century.

Stern, Reuter





Natural Gas Fuel

Natural gas may be used to fuel your car under a new Swiss scheme being trialled by Australian Gas Light (AGL).

Motorists can hook up converted cars to their home gas supply or gas stations using the system, designed by Sulzer Bros. Ltd. Car conversion costs are estimated at about \$1,300; but 60 litres of gas costs under \$3 - about one-tenth the price of petrol. Because of extra gas burned to achieve the same power, gas is about one-quarter the price of petrol.

AGL claims running costs will be slashed by more than half, because gas burns cleaner than petrol and causes no emission problems. The trade-off is a 10-15% reduction in engine power and reduced range on a tank.

AGL plans to lease small compressors to consumers which pump the gas from the home supply into the car; it would take about 9 hours to fill a 60-litre tank. Larger commercial compressors can fill a tank in 3 minutes. Like LPG, converted cars could be 'dual-fuel' and immediately switch back to petrol if required.

This scheme is a great first step to weaning ourselves and the world off fossil fuels.

Oils Burn in Africa

Midnight Oil's recent *Diesel and Dust LP* and *Beds Are Burning* single topped the South African charts earlier this year.

The band, led by musician and proto-politician Peter Garrett, have donated South African profits from the records to the African National Congress and the Federated Union of Black Artists. In the first three months the album sold 60,000 copies.

"It's ironic that the profits are coming from a wide spectrum of South African society," said Mr Marco Boni, the South African Vice-Consul in Sydney. "I'm sure if they knew where the money was going they wouldn't be so keen to buy the records."

UNBORN TV ADDICTS

Babies can become addicted to their mother's favourite soap opera in the womb and are calmed after birth by the same theme music, according to British medical journal *Lancet*.

Dr Peter Hepper, a psychologist at Queen's University, Belfast, tested the babies of seven mothers who regularly watched the series *Neighbours*. He played the soap's theme music to babies four to five days after birth along with eight other babies whose mothers didn't watch the series. Six out of the seven 'Neighbours' babies stopped crying when the music was played; only two of eight in the control group stopped crying.

The six babies adopted a "quite alert state" as the theme tune started, said Dr Hepper.

"Mothers addicted to these programs report settling down with a cup of tea and feet up to watch them, so they may be said to be relaxed," he said. "The foetus may become conditioned to the tune."

NDP WOOD-DUNN SNAFU

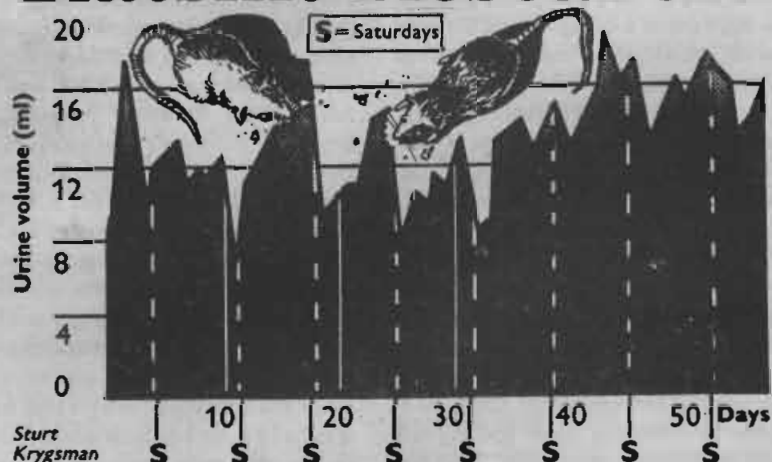
The High Court declared in May that Senator Robert Wood (*see interview in Issue 4*) was ineligible to be a Senator due to the fact he was a British citizen when elected. Many in the Nuclear Disarmament Party thought that Irina Dunn - who beat Elaine Nile in a recount, deciding the result of Robert Wood's seat - would pass the position back to Wood. Her decision not to has fueled some discontent.

"She has never been prepared to let the party decide what should happen with the seat," Mr Wood claimed in July.

Sen. Dunn said that "Anybody would be disappointed to lose a Senate position, but what's most important to the 287,000 voters are issues like Lucas Heights and the lack of a port safety plan for nuclear warship visits in Sydney Harbour."

Mr Wood said he was now open for any job offers.

Ratshit Research



Laboratory rats, like the extra-dimensional mice of *The Hitchhiker's Guide to the Galaxy*, may have had the last laugh. CSIRO research into rat behaviour has shown that rats are far more sensitive to what happens around them than scientists believed - and laboratory rats *behave differently when they're being studied* than when they are not!

Subtle stimuli such as the amount of noise or movement in a laboratory alter rat behaviour and metabolism and ruin the conclusions of many studies using rats and other animals.

CSIRO researchers at the Hobart Fisheries Research Station noticed that their rats were defecating far less on weekends than weekdays. Dr June Olley and Stephen

Thrower worked for months on unravelling the secret of the rats' bowel movements and contacted a Czech scientist who had noted the same thing in the 1950s.

The rats are too frightened by the students during the week to have a "decent feed and a crap," Mr Thrower said. On weekends they eat, urinate and defecate less because they're calmer.

"We might find that people have measured and published findings that are ascribed to factors that don't exist because of these other factors," he said.

"In a way, it looks (like) the humans are the ones being duped by the rats." (see graph)

The Twin



Identical twins have always caused people to look in fascination at the strangeness that two identical people have; individuals who appear to be one person.

About a third of the world's estimated 100 million twins are *monozygotic* - identical, coming from a single fertilized egg which divides into two in utero. These twins are identical in every genetic detail, right down to birthmarks and fingerprints. Differences between them must be shaped by the individuals themselves and are exclusively non-genetic.

But there exists a strange world between these twins, and a stranger one exists between identical twins who, for one reason or another, were separated at birth and brought up totally apart, usually without the knowledge of each other's existence.

The "Jim Twins" are a fascinating example of separated identical twins. At five weeks they were adopted by different families who were each told the other twin had died at birth. Raised 130 kms apart they eventually met when they were 39 years old.

Both boys were named James, both grew up with adopted brothers called Larry. Both were good at maths and hated spelling and both had owned dogs called Troy. Both had married girls called Linda, divorced and then married "Bettys". Their first sons were named respectively, James Allan and James Alan. Both families holidayed at the same small beach in St Petersburg, Florida for years, driving there in Chevrolets. Both Jims had worked as petrol pump attendants, deputy sheriffs, and at one time in the same hamburger chain. They shared the same nail biting, eating, drinking and sleeping habits and both shared the same hobbies of carpentry and technical drawing.

Jeanette Hamilton and Irene Reid were put up for adoption in 1944 by their unmarried mother. In August 1979, the sisters met each

other for the first time. They discovered they were both terrified of heights, were compulsive calculators (if they saw a truck they counted the wheels on it); both suffered from claustrophobia and had both worked for the same cosmetics firm. They both had such an aversion to water that they sat with their backs to the ocean when visiting the beach. They got a pain in the same spot in the right leg in wet weather.

In 1979 Bridget Harrison and Dorothy Lowe discovered they were identical twins. They found bizarre synchronicity run through their lives. They had married within a year of each other and had worn identical wedding dresses. One had called her son Richard Andrew and the other Andrew Richard. Bridget's daughter was called Catherine Louise, Dorothy's was Karen Louise (Dorothy wanted to call her Katherine, but called her Karen to please a relative). Both had studied piano to the same grade and stopped after taking the same exams. Both collected soft toys, had cats called Tiger and had contracted meningitis. They both kept a diary for one year - 1960 - and the diaries were the same make and colour. The entries they had made matched day for day. Both wore seven bangles on one wrist and a watch and bracelet on the other.

Synchronised Twins

One of the most striking cases of highly synchronised separated twins is that of Oscar Stohr and Jack Yufe, born in Trinidad in 1933 and separated shortly afterwards when their parents quarreled. Oscar went to Germany with his mother where he became an ardent Nazi. With profound irony Jack was reared a Jew by his father, attending synagogue. They met each other 46 years later and discovered their habits were identical.

Both flush the toilet before and after using it; store rubber bands on their wrists and read over meals, which they prefer to eat alone. They dip buttered toast into their coffee and read magazines from back to front. Both like to scare people in lifts by sneezing loudly, have moustaches and wear wire-rimmed glasses.

Most twins start to develop their own individual personalities by their early teens. However, some twins fail in this separation and continue to grow as if they are one person.

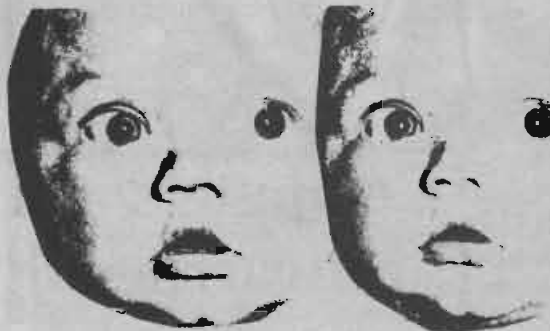
Greta and Freda Chaplin are one of the best examples of this phenomenon. Discovered in 1980 at the age of 38, they were brought before a magistrate in York, England for harassing a neighbour. What fascinated the psychiatrists and journalists was that the twins spoke in what appeared to be *precise synchronisation*. On further investigation more examples of their behaviour implied they were effectively one person. They were a familiar sight in York and kids, believing them to be witches, threw stones and spat at them. Adults went out of their way to avoid them.

They both wore identical grey coats; one originally came with green buttons, the other with grey. They automatically cut off two buttons each; now both coats have two green and two grey. When they were given different coloured gloves they simply took one from each pair. A gift of different coloured bars of soap caused them real anguish and they burst into tears. The problem was solved when the bars were cut in half.

Mirror Imaging

They also exhibit "mirror imaging", characteristically found in monozygotic twins. In typical cases of mirror imaging, one twin is right handed, the other left; whorls of hair grow clockwise in one and anti-clockwise in

Connection



the other; the left thumb print almost matches the right thumbprint of the other. The Chaplins dress in mirror image, right down to bracelets on opposite wrists; if one breaks a shoelace the other pulls the lace out of the opposite shoe.

But this particular behaviour could in part be attributed to their upbringing. Their parents actively encouraged their togetherness and similarity and they were not allowed any friends. Both parents were friendless and uncommunicative, with Mrs Chaplin being excessively house-proud. The twins' only apparent pleasure is bathing together and washing each other's long hair. It is estimated they use 14 bars of soap and three large bottles of shampoo each week.

They now live in a hostel for the mentally handicapped.

Ideoglossia

Grace and Virginia Kennedy were born in 1970 in Georgia USA. They developed a unique and private language between themselves, with highly original vocabulary and syntax. This phenomenon is known as *ideoglossia*.

The twins suffered apparent seizures as babies and at 17 months started to speak rapidly in a language of their own. The only English they spoke was 'Mummy' and 'Daddy' and they called each other 'Poto' and 'Cabenga'. In 1977 the Children's Hospital in San Diego, California started speech therapy in a study of the twins, in the hope of learning something about the mysteries of language development. As they grew older they suddenly began to speak English, but have never revealed the meaning of their private language.

Shared Illness & Injury

Shared illnesses and injuries amongst twins is a common phenomenon, even when they are miles apart.

Since 1953, Professor Luigi Gedda of the Gregor Mendel Institute in Rome has conducted a study on more than 15,000 pairs of twins. He has a "clock-of-life" hypothesis to account for the extraordinary correspondences in the lives of twins. Transmission of pain, physical wounds, carbon copy accidents - all of which defy rational or scientific explanations.

In 1948, Alice Lambe, a 20 year old typist, sat reading in the parlour of her family home. At 4.35 p.m. she felt an enormous jolt on the left side of her body, then a sharp stabbing pain and a feeling of shock. The impact of this "feeling of a blow" knocked her off her chair. She called out to her father and just before she passed out said "something has happened to Diane".

Diane, her identical twin was 110 kms away in another town for the day. The train she was travelling home in was derailed and she was thrown across the carriage, suffering two fractured ribs. Diane took two weeks off work as a result of her injuries. The strange thing was that Alice also took two weeks off work, complaining of pains in her chest. Eventually Alice was x-rayed and it was discovered that she also had two fractured ribs in the same place as Diane.

In 1975 Nettie Porter was involved in a car crash. Her identical twin Nita Hurst was at work 700 kms away. Suddenly she felt stabbing pains in her left leg. She rolled up her trousers and was amazed to see bruises appearing up her leg. The matron in the hospital at which she worked bore witness to this phenomenon and the bruises corresponded to Nettie's injuries.

Silva Landa burnt herself on an iron. 20 kms away her twin Marta felt the pain and blistered in the same spot. Both have scars.

Helen Fry, aged 13, was out shopping with her grandmother. Suddenly she started to stagger around dazed. On arriving home she promptly fell asleep. Her twin, Lorraine, was in hospital having a minor operation; both children had experienced the general anaesthetic. Jayne Wilkinson aged five fell over and broke her nose, her twin Claire had a nose-bleed.

Even in Death

Sometimes pain transference in twins can be fatal; sisters Helen and Peg are a case in point. One night Helen woke screaming and white-faced with a terrible pain in her chest. She managed to reach her father before passing out, but died in the ambulance on the way to hospital - as did Peg who had been in a car accident at exactly the same time Helen awoke. She died from massive injuries caused by the steering wheel penetrating her chest.

The examples of synchronicity in twins' lives go on forever. These are just some cases from around the world, based on research done in this field by Professor Luigi Gedda of the Gregor Mendel Institute in Rome.

Identical twins are fascinating to all of us who are *not* one. They have been the source of much study to see whether environment and social patterns or genetics are a primary cause for their similarity; they've also been studied to illuminate the nature of telepathy. Identical twins are the closest humanity comes to cloning without genetically tampering with nature. Perhaps they hold more secrets than we know.

by Nissa



Quake Query

The largest reactor at Lucas Heights would not survive a major earthquake, according to the Federal Government's Nuclear Safety Bureau (NSB). Work to strengthen the reactor and prevent a disastrous coolant-loss accident will take 12 to 18 months to complete.

The NSB has asked the reactor's management to prove Sydney residents are not at risk in the intervening time. The reactor can withstand minor quakes and one bad enough to seriously damage the reactor would also decimate the city.

Their two-year study's report criticises Lucas Heights safety standards, especially in the event of a loss-of-coolant accident. Lucas Heights highlights the lack of safe storage and disposal systems in nuclear industries.

SYDNEY NUKE WASTE ROUTE

Highly toxic nuclear fuel waste will be 'secretly' transported through the streets of Sydney four times this year.

450 spent nuclear fuel rods from the Lucas Heights reactor will be driven through densely populated suburbs, probably through St George to Port Botany. Many of areas on the route are 'nuclear-free zones'.

The fuel rods are some of 1,500 held in 'temporary storage' in holes lined with stainless steel at Lucas Heights. Each shipment is expected to consist of about 100 rods containing a total of 50 grams of plutonium.

Democrat Senator Richard Jones has suggested the waste be moved by helicopter.



Computers and Miscarriages

A four year US study has found that a very high percentage of women who work at computer terminals for 20 hours a week or more have miscarriages.

The study of 1,600 women in California's Silicon Valley by the Kaiser Permanente Medical Group showed that the level of miscarriages was 80% higher for heavy users of Video Display Terminals (VDTs) than for other women. The percentage in non-VDT users was 32%, compared with 44.4% in heavy (20 hours or more) VDT occupations.

"It's too early to give advice," said Robert Hiatt, senior epidemiologist at Kaiser Permanente. "I don't think women should be alarmed, but it justifies further study."

Graeme Elliott, a scientist at Australian Radiation Laboratories, claims the survey results do "indicate a problem", noting that the number of women surveyed is far greater than any other to date. Four related surveys of over 10,000 women are being undertaken in the US, UK, Canada and Denmark over the next 12-18 months.

Australian Computer World

Hess History

A British historian alleges that Hitler's deputy Rudolf Hess, who flew to Britain during World War II on a mystery peace mission, was murdered in Berlin's Spandau war crimes prison after 47 years of captivity.

Historian Hugh Thomas claims to have strong evidence that 93 year-old Hess was killed to prevent his imminent release. His jailers claim he hanged himself with an electric cord in August 1987. Says Thomas:

"There is no substance in the allegation that prisoner number 7, Rudolf Hess, committed suicide. On the contrary, there is overwhelming evidence that murder was committed."

In Thomas' book *Hess: A Tale of Two Murders*, Hess' family is said to have evidence that a suicide note found on his body was a fake and that British officials had destroyed crucial evidence. Hess was the only prisoner at Spandau since 1963.

Reuter



Antediluvian Library

Original pre-Biblical accounts describing a great ark and flood have been discovered in Iraq.

Baghdad University archaeologists excavating an ancient Mesopotamian city near Baghdad are unearthing thousands of clay tablets in a 2,500 year old library. Only 300 of the estimated 2,500 tablets have been examined, but they appear to be a complete version of a story of a great flood.

The tablets also include a creation myth which pre-dates the Old Testament accounts by at least 1,000 years.

-AAP

MORE NUKES IN SYDNEY

Seven nuclear-armed warships are entering Sydney Harbour in September. Prime Minister Hawke invited the vessels to take part in the Bicentennial Fleet Naval Review. Warships including the nuclear-armed aircraft carrier HMS Ark Royal and the battleship USS New Jersey, which carries nuclear-armed Tomahawk Missiles, and 49 other ships from 12 countries will be crammed into the harbour on September 26th and 27th.

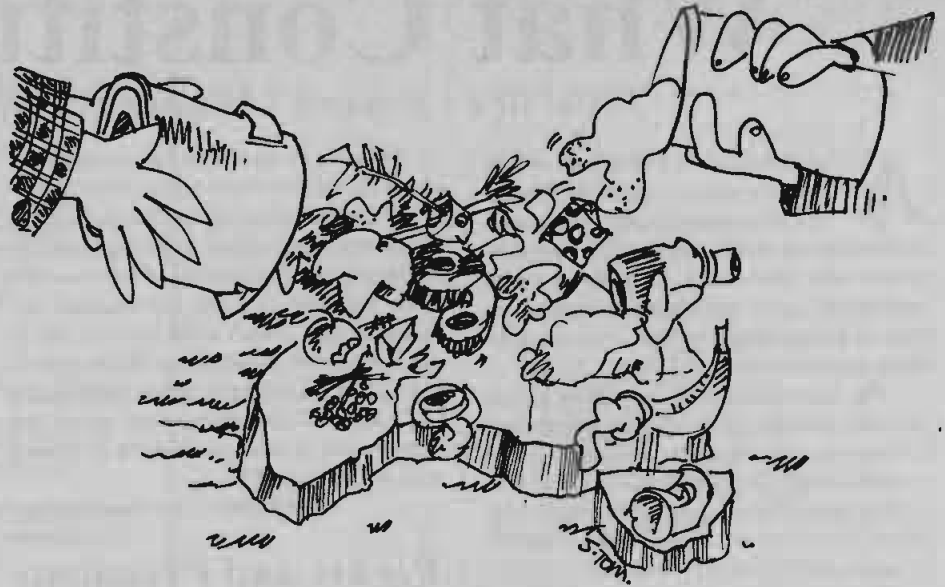
The Sydney Peace Squadron wants you to be part of their protest campaign. Similar protests in New Zealand resulted in their nuclear-free ports policy.

Contact the Peace Squadron at 498 King St, Newtown; (02) 519 7465.

World Satellite Birthday

Nelson Mandela passed his 70th birthday behind bars in July after the world tuned in to a global satellite celebration in June commemorating the event. In an effort to focus global consciousness on the plight of Mandela and his followers, hundreds of millions of people (estimates ranged between 200 and 800 million) were entertained by Sting, the Eurythmics, Joe Cocker, Joan Armatrading, Peter Gabriel, Phil Collins - and Caribbean, Arnhem Land and African native dancers and musicians, to name a few.

Lacking the wide publicity of earlier satellite hookups such as Bob Geldof's *Live Aid*, this 12 hour concert televised from Wembley Stadium in London nonetheless managed to momentarily focus world attention on the situation in Southern Africa.



Oz Dumping Ground

Australia could be a dumping ground for contaminated food, according to a Federal government scientist. Anthony Steel, a chemist at the Australian Government Analytical Laboratories (AGAL) in Sydney said that Australian foods destined for export undergo rigorous testing, but that imported foods do not.

AGAL checks only those samples of imported food sent in by government departments for analysis. Mr Steel, also NSW State Secretary of the Professional Officer's Association, is "incredulous at the fact that over the last couple of years there has been practically no testing at the point of entry.

"At the moment, we have been lucky because importers have been bringing in quality food; but once it becomes well known that Australia conducts minimal testing, who knows what could happen?"

Salmonella-infected and even radioactive foodstuffs have been recalled and destroyed in Australia. The June issue of *Consuming Interest* (the Australian Consumers' Association quarterly) said that few of 1987's estimated \$1.5 billion worth of imported foods underwent any testing for bacterial or chemical contamination. The magazine also reported a December 1986 Federal Government working group report which described poor recording of "failed" imports, dumping of goods rejected by other countries and the smuggling in of sub-standard goods by shipping them from port to port.

In June, Mr Steel called for a levy to be

imposed on all food importers to cover the costs of a stringent food testing program.

Medicine

Up to 20% of medicines on sale in Australia have not been tested either, but here the problem is the opposite; imported drugs are now carefully tested, whereas local-made ones have slipped through without testing.

Dr John McEwen, acting head of the Commonwealth drug evaluation branch, said that many Australian medicines have not been tested because of a legal loophole.

"We have no legal right to examine them because we work on the Customs Import act," he said.

"That means that all imported drugs are checked before sale, but locally-made ones are not." Dr McEwen cited several examples, including:

- *Glucomannan*, a diet pill which was supposed to reduce hunger by swelling in the stomach; 25 Australians had the pill surgically removed after it blocked their oesophagus.
- *Danthron*, a laxative which was removed from the market in 1987 because it caused cancer.
- A hair lice shampoo which caused conjunctivitis and cornea ulceration.

The only locally-made drugs which are tested are those subsidised by the Federal Government.

WORLD HERITAGE

We note a letter addressed to Peter Sawyer in the latest issue of *Nimbin News* which refutes allegations that World Heritage listing opens land up to a 'World Conservation Bank' (WCB), which we reported from *The Reaper* last issue:

"The World Conservation Bank is a myth arising from the International Wilderness Conference. Many prominent environmentalists found this conference disgusting and it is largely discredited.

"In short the WCB does not exist and is never going to control World Heritage areas. These areas are far safer as internationally protected areas than they will ever be under the profit conscious dictates of the impoverished nations. World Heritage deserves your support, as does the principle of an international organisation succeeding the interests of nations..." We thank Ian Peter for this contribution on this important issue.

Late Library Booked

The Library of Alexandria, that Mediterranean repository of ancient knowledge built in the city of Alexander the Great, is being rebuilt by the Egyptian government.

Put to the torch in 48 BC in the reign of Julius Caesar, the library's new foundation stone was laid in June near the original site by the Egyptian President, Hosni Mubarak.

Reuter

What Constitution?

How does it work? Where is it taking us?

Dean Winter

Australia and New Zealand are now the only parliamentary democracies with almost no constitutional limitations on excesses of power by governments over individuals. For many years individual rights and freedoms have given way to government policies and administrative convenience.

The Australian Constitution deals mainly with the structure and powers of government.

There is no comprehensive statement of Constitutional rights and freedoms as found in similar constitutions, such as those of India, West Germany, the USA or the Canadian Charter of Rights and Freedoms.

Those who framed our Constitution at the end of last century preferred to follow British tradition, which relied on the self-restraint and democratic spirit of its parliament to safeguard individual freedom. They felt that to define the rights of Australians would be an insult to Australian civilization.

There is no Constitutional guarantee of fair compensation if your property is resumed by a State government, and there are no guarantees to the rights to vote, to free speech, nor even the right to trial by jury (except for a Federal offence).

The Constitutional Commission - a body set up to report on revising the Australian Constitution - has recommended that the right to vote be recognised as a basic democratic right that should be given Constitutional protection in Federal, State and Territorial elections. Likewise for trial by jury;

"Bearing in mind that the rationale and essential function of trial by jury is the protection of the individual against the authority of the government, against administrators who might seek to subvert the due processes of law or be over-zealous in its enforcement, and against Judges remote from ordinary life or over-responsive to authority. If the right to trial by jury is sufficiently important to require Constitutional protection, then unless the Constitution is to be mocked the protection must be complete."

- First Report of the Constitutional Commission

Rights and Freedoms

There are other guaranteed rights and freedoms which the Commission recommends - freedom of conscience and religion, freedom of thought, belief and opinion, freedom of expression, freedom of peaceful assembly, freedom of association - and all the others we take for granted, like freedom of movement, rights if arrested, and fair compensation for resumed property.

They also recommend that the principle of *one vote one value* be adopted for all Federal, State and Territorial elections. This involves each member of the legislature representing roughly the same number of electors (with 10% tolerance).

The Individual and Democratic Rights Committee (including Peter Garrett), one of five committees set up by the Commission, has recommended that the status of 'citizen'

should be defined as;

- All people born in Australia.
- All natural born or adopted children of an Australian citizen.
- All naturalised Australians.

But the Commission itself has decided against this definition;

"While citizenship is an important matter, we do not think it is something that is suitably conferred and protected by one relatively short Constitutional provision..." They recommend that the government should be able to formulate laws on citizenship. At the moment they can only make laws about naturalisation and 'aliens'; the Constitution doesn't define who is eligible for citizenship, and any future government could change whom a citizen (and non-citizen) is at will.

The Commission recommends that the Constitution be altered so that the members of each house of a State Parliament be chosen directly by popular vote and not by indirect means such as by Parliament, Executive Government or an Electoral College (such as in the U.S.). We do of course directly elect all State parliaments at present, but under the Constitution it could be legally possible for a State Government to elect itself!

People Power

The last recommendation of the Individual and Democratic Rights Committee is very important;

"The Commission received a number of submissions from a surprisingly wide range of people arguing that the process of initiating amendment of the Constitution by referendum should be placed in the hands of the people and not monopolised by governments. This process is commonly referred to as 'citizens' initiative' or 'direct democracy.'"

If a large section of the population (i.e. 500,000 voters) sign a petition for a constitutional change, that change would be submitted to a referendum - the people could decide contentious issues directly. Opposition to this idea comes mostly from politicians. One argument against the proposal is that it would be abused by special interest groups; but these can't succeed at a referendum unless there is broad-based consensus.

This proposal was completely ignored by the Constitutional Commission and was not even mentioned in its recommendations.



Aboriginals Ignored

The Committee suggested there should be a new Preamble to the Constitution;

- "Whereas the people are drawn from a rich diversity of cultures, yet are one in their devotion to the Australian tradition of equality, the freedom of the person and the dignity of the individual.
- "Whereas Australia is an ancient land previously owned and occupied by Aboriginal people who never ceded ownership.
- "Whereas the Australian people look to share fairly in the plenty of our Commonwealth.
- "Whereas Australia is a continent of immense extent and unique in the world, demanding as our homeland our respect, devotion and wise management.."

However, the Commission has decided not to include this preamble in its recommendations. They said it was too difficult to define "the fundamental sentiments which Australians of all origins hold in common..." - but the rest of the Preamble was thrown out as well.

Parliamentary Changes

The House of Representatives determines the government, provides most government ministers and initiates most legislation. Its members are elected by the population and must perform constituency work in their own electorates.

The Senate is elected on the basis of equal representation of States rather than by population. The Senators don't represent particular electorates but the entire State.

The Commission has many recommendations concerning parliament. One is to extend the maximum term of the House of Representatives from three years to four. The vast majority of countries with democratic governments have four or five year terms. Of the 143 parliaments listed in Geneva, only 15 have terms of three years or less.

Another recommendation is that there be a three year *minimum* term so that elections can't be called opportunistically.

Our Monarch

The Commission recommends that there be no change to Australia's status as a Constitutional Monarchy, except to repeal certain powers of the Monarch;

At present, the Queen of England may disallow any Australian law within one year of it being signed for her by the Governor General. She may also disallow certain laws by not assenting to them within two years.

Another recommendation is that we have powers to make laws regarding the succession to the Throne and Regency in the sovereignty of Australia. If the U.K. alters its rules of succession (as it did during the abdication of Edward VII in 1936) those rules would not apply to Australia.

Other recommendations include recognition of local government and provision for the creation of new States.

September 3rd Referendum

On September the 3rd we are voting on four questions in a Referendum. These relate to;

- Parliamentary term increased to four years
- The right to vote
- Recognition of local government
- Extension of rights and freedoms including



Already In the Constitution

One important feature of the freedom of religion referendum is that the Constitution *already has a section which specifically guarantees freedom of religion;*

"The Commonwealth shall not make any law for establishing any religion, or for imposing any religious observance, or for prohibiting the free exercise of any religion, and no religious test shall be required as a qualification for any office or public trust under the Commonwealth."

- Sect. 116, States Section, Commonwealth of Australia Constitution Act, 1901.

It's often considered this clause extends no Commonwealth powers over the States on Religious matters - but Section 109, also in the States section, says that; "When a law of a State is inconsistent with the law of the Commonwealth, the latter shall prevail, and the former shall, to the extent of the inconsistency, be invalid." This means that the Constitution already guarantees freedom of religion throughout Australia! We are actually voting on moving this section to another part of the Constitution - a Bill of Rights.

Furthermore, the Federal Government does have direct constitutional power to acquire land from the States in the interests

trial by jury and freedom of religion.

For a proposal to be passed at a referendum it must win the support of the majority of voters in the majority of States, and the majority of voters overall. Referenda have changed the Constitution eight times since Federation. On 30 other occasions, Referenda have failed to achieve their majorities. But four of the 8 proposals were passed since 1967 (out of 14).

Think (and register!) before you vote; whatever your view, this chance may never come again.

This information has been compiled from the Summary of the First Report of the Constitutional Commission and the Summary of the Reports of the Advisory Committees to the Constitutional Commission. Copies of these documents are available FREE from the Commission; just ring (02) 29 8505 or (008) 02 3103.

of National Heritage. Under Section 51 (XXXI), the Commonwealth can acquire property on just terms from a State or person for any purpose that the Commonwealth has power to make laws about. World Heritage justifies Commonwealth acquisition of State Forest, for instance.

Australia IS Neutral!!

Under the Australian Constitution, Australia IS A NEUTRAL NATION WHOSE REPRESENTATIVES MAY NOT DEMONSTRATE ANY ALLEGIANCE even to a friendly nation.

No Australian politician can show any "acknowledgement of allegiance, obedience or adherence to a foreign power" under Section 44(i.) of the Constitution. No Australian politician can, therefore, make any treaties of allegiance (ANZUS) or deals to "Stick Together" (ADHERE) with ANY FOREIGN POWER!

The recent arrests at Pine Gap have resulted in this clause being used to challenge the right of politicians to order Australians to protect foreign facilities.

John Sword

UN Planetary Survival Report

A United Nations study says that planet Earth can support the six billion people expected in the year 2000 - if economic development is balanced by environmental conservation.

The 1988 UN *State of the world population* report, released in May, called for urgent action to preserve land, air and water.

"World population, now over five billion, will be six billion by the end of the century.

"Nearly all of this growth is in developing countries, by definition those least capable of absorbing it," according to the report, which said industrialised countries must help developing nations solve population problems and develop technology that limits industrial environmental damage.

"With care and attention to balanced programs of conservation and sustainable development on the part of the international community, governments, industry and all levels of society, the Earth is capable of supporting the increasing needs of the next century," it said.

But the study states that food production worldwide must increase by 3% to 4% annually to feed these 6 billion people.

To do this, agricultural growth must be linked to land rehabilitation, organic fertilizers and pesticide alternatives and better water and irrigation management.

Each year, the study said, tropical forests shrink by 11 million hectares, 26 billion tons of topsoil are lost and six million new hectares of new deserts appear.

"Thirty one million hectares of forest in Europe and North America are already affected by acid in the air or soil. An unknown

amount of toxic and hazardous waste is being transported across national boundaries."

World population is growing despite the deaths of over 11 million children under the age of five in the developing world each year. About 100 million children under five suffer protein malnutrition.

The report said industrialised countries have less than a quarter of the world's population but consume 75% of the energy.

Slower growth and more even population distribution can take pressure off agricultural land, energy sources, vital watersheds and forest areas, giving more time to plan for sustainable development. China, Costa Rica, Cuba, Indonesia, South Korea, Sri Lanka and Thailand received praise for providing family planning services and policies to slow population growth.

The report recommends developing medium-sized cities which provide better services to relieve the pressure. It predicts half the world will be living in urban areas and one-fifth of city-dwellers will reside in "mega-cities" of ten million or more by the year 2000.

The 10 largest cities in 1985 were: Tokyo (18.8 million), Mexico City (17.3), Sao Paulo (15.9), New York (15.6), Shanghai (11.8), Calcutta (11.0), Buenos Aires (10.9), Rio de Janeiro (10.4), London (10.4) and Seoul (10.3).

In the year 2000, the report said, the 10 largest cities will be Mexico City (25.8 million), Sao Paulo (24.0), Tokyo (20.2), Calcutta (16.5), Bombay (16.0), New York (15.8), Seoul (13.5), Tehran (13.6), Shanghai (13.3) and Rio de Janeiro.

Reuter, AP

Dolphins Love Sex

Masturbation, promiscuity and homosexuality all seem to be common in dolphins, according to results of studies of wild dolphins at Shark Bay, in Western Australia.

The famous Monkey Mia bottle-nose dolphin herd, which has been given nicknames like Holey Fin, Puck and Bee Bee, swim into shallows and allow people to feed and touch them.

Out in deeper water, a team of American scientists has noted "constant sexual interaction, both heterosexual and homosexual" in the herd, according to US journal *Science* last June.

Dolphins, like primates including chimpanzees, have promiscuous sex-lives; females often mate with many different males, and vice versa. Wild and captive dolphins masturbate and male dolphins have even been reported mounting small boats. In the US, two heavily-scarred males have kept constant company since 1975.

"So much of the interaction appears to be purely social," says Richard Conner, a University of Michigan student and Monkey Mia team member.

"The males are constantly mounting each other and mounting females not in oestrus.

"There'll be a group of four or five males and it seems like one of them goes, 'Let's get Pointer!' And the other males start mounting him with erections."

One theory is that pairing in male dolphins may promote co-operation in hunting and protection from attack.

A U.S. dolphin study pioneer in the US, Randy Wells of the Woods Hole Oceanographic Institute, says groups of males also work together to isolate a female and keep her with them. He has found that male bottle-nosed dolphins have unusually large testes - their sperm is 300 times more concentrated than in humans and 100 times that of chimpanzees.

"The early development of sexual behaviour, many years before sexual maturity, suggests that sex is quite important in the lives of these animals," says Wells.

According to Barbara Smuts of the University of Michigan, who has studied wild chimpanzees in Tanzania, large brain size is related to non-reproductive sexual behaviour in animals. Dolphins are believed to have evolved from land mammals; the ancestors of dolphins and chimpanzees are thought to have parted company 60 million years ago.

Indestructible CFCs

Orange Council in N.S.W. has discovered that it can't get rid of its fluorocarbon-propelled flysprays and air fresheners.

Aldermen voted to destroy their 11-month supply of 156 cans, worth about \$300, to help protect the earth's ozone layer. But no one can tell them how.

A State Pollution Control Commission officer said there is no way to destroy the cans without releasing the gaseous fluorocarbons. He said it might be possible to burn the cans in a high temperature incinerator at about 1,200 degrees centigrade.

"But there isn't one in Australia," he said. "So that's out."



Pioneer Phones Home

Pioneer 10, an early US robot planetary probe which is continuing into deep space, is now nearly seven million kilometres away - but has yet to find and cross the edge of the solar system.

The heliosphere - the space in which the Sun's gases and magnetic field create an enveloping shield against incoming interstellar gases and radiation - was once thought to extend only to the orbit of Jupiter. But Pioneer is still reporting solar wind, the 1.6 million km/h flow of charged gases from the Sun which creates a thin "atmosphere" throughout the solar system.

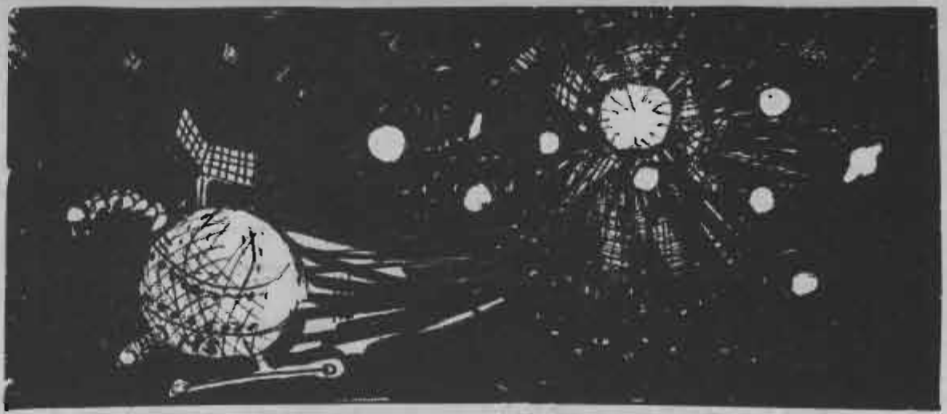
The 227 kg craft, cruising at 45,440 km/h, still transmits faint reports using 1972 power supply, solar cells and computer equipment. After becoming the first spacecraft to traverse the asteroid belt beyond Mars and conduct a reconnaissance of Jupiter (which was supposed to be the limit of its voyage), Pioneer is now 45 times the distance from the Earth to the Sun, which is so dim that Pioneer can no longer use it for guidance. It's so far beyond Pluto, whose orbit it crossed five years ago, that radio signals take 12 and a half hours to make the round trip from Earth.

Mr. Robert Jackson, deputy director of the Ames Research Centre in Mountain View, California, says Pioneer's power supply should continue transmitting data for at least four years, possibly much longer - maybe long enough for Pioneer to report on conditions where the heliosphere ends and true interstellar space begins.

"In the next three years we have a strong chance of encountering the boundary," said Dr. James Van Allen, a physicist at the University of Iowa who discovered the Earth's radiation belts. He and Darrell Judge said years of observation suggest the heliosphere's size fluctuates widely over an 11-year cycle.

"It's quite a dynamic situation," Dr Van Allen said. "Strangely enough, when solar activity is at a minimum in the cycle, the pressure of the solar wind is greater and this expands the heliosphere. At solar maximum, there's more turbulence, but not the same momentum, and so the heliosphere contracts."

In 1983, Pioneer scientists discovered a huge sheet of electrical current aligned with the Sun's equator and invisibly surrounding it in a huge ring. This current sheet undulates continuously in harmony with the Sun's rotation.



Whale & Dolphin Conference

The First International Whale and Dolphin conference was held at Valla Beach on the NSW North Coast in May. People came from across Australia and the world to celebrate this conference of over a dozen "brilliant minds and hearts", including John C. Lilly, Burnum Burnum and representatives of cetacean rescue groups and societies.

Leading researchers and 'dolphin dreaming' exponents fleshed out the weekend with intellectual and intuitive insights and experiences.

Dr Horace Dobbs, an author and scientist who leads an international campaign to free captive dolphins, gave a paper on curing chronic depression by taking people out to meet friendly dolphins in the wild.

Over 200 delegates from 18 countries approved a resolution at the end of the conference calling for recognition "that human survival is inseparable from the health and welfare of all species and of the right to life of free species in their rightful domain." They ask that the governments of Japan, the Faroe Islands, Denmark, the U.S. and Mexico end the millions of needless cetacean deaths at human hands.

Tuna fishermen are still taking a heavy toll on dolphin lives; Japanese tuna boats slaughter about 50,000 dolphins annually, while about 20,000 die in American waters, accidentally fouled in tuna nets. Off Mexico, up to 200,000 dolphins die in tuna nets annually according to the conference, which asked Prime Minister Hawke to exert influence to end Japanese whaling activities in Antarctic waters 3,000 km from Perth. The Japanese are killing 300 Minke whales for 'scientific purposes' there this year.

The resolution also calls for "positive action to restore the peace and purity of the world's oceans."

Whales Return

Australia's eastern humpback whales are returning, with large pods of breeding whales being sighted off the Queensland coast. Now whale-watching is becoming a growth industry.

Estimates of eastern Australia's original humpback population range up to 10,000; by the last whaling season of 1963-4, humpbacks had been decimated to between 200 and 500 whales. Estimates now place their number at about 1,000.

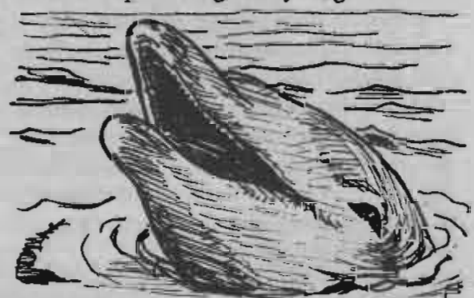
"We're very concerned about the impact of tourism," says Professor Michael Bryden of Sydney University, who is studying humpbacks at Hervey Bay near Fraser Island. "Too much boating activity could disrupt their mating, and mother-calf pairs could be broken up.

"Several local boats had started up whale-watching trips, and we have heard by word of mouth that the local tourist trade benefited by about \$1 million" last year.

A lone British yachtsman was rescued by an RAF jet earlier this year after a pod of 20 whales destroyed his sloop Hyccup in the mid-Atlantic.

41 year-old David Sellings was taking part in a solo Trans-Atlantic race when the whales destroyed his 7.5 metre sloop 1,600km from land.

"It's very unusual for whales to attack a boat, but not unknown," said a RAF rescue spokesperson, who suggested the whales may have been protecting their young.



Earth Resonance Technology

by Elmer Griffin

"One man's floor is another man's ceiling" - Anon

From the discoveries of an all but forgotten scientist, a new understanding of space-time itself is emerging which can be used to open up a Pandora's Box or a Horn of Plenty for humanity.

Around the turn of this century there lived a visionary genius called Nikola Tesla. He was born in Smiljai, Yugoslavia in 1857 and died in New York in 1943, penniless and disillusioned.

Tesla was a major electrical pioneer who somehow slipped out of the history books. Some of his more famous inventions include the fluorescent light, the polyphase motor (which is the basis of A.C. power transmission), A.C. power transmission itself, the car coil, ultra-high speed electrical switches and robotics. Tesla also used special coils he invented in connection with his experiments on radioactivity which took place prior to the discovery of radium by the Curies. He was awarded the Nobel prize for physics in 1912.

Around 1900, Tesla was engaged in a race with Marconi to develop wireless communication. Both Marconi and Tesla knew that radio waves were produced by an oscillating electric current and that messages could be sent by modulating these oscillations. Marconi had a circuit that oscillated and an antenna which was fed the oscillating current. Tesla's tower system acted as both oscillator and antenna - and it oscillated in resonance with the Earth itself.

Tesla's electrical experiments took place on the slopes of electrically hyperactive Pikes Peak near Colorado Springs over nine months from 1899 to 1900. He required extra-high voltages for his experiments and, using new dynamos he designed, he invented a novel device which has come to be called the *Tesla coil*. Small Tesla coils are fairly common in electrical labs and they can be used to detect leaks in vacuum apparatus. The transmitting tower at Colorado Springs was a giant Tesla coil which generated hundreds of thousands of horsepower of high frequency electrical power at ten million volts!

The Electric Earth

At his isolated laboratory, Tesla discovered that the Earth acts as a giant conductor of electrical signals from storms and continues to conduct electrical disturbances long after a storm has passed over. In other words, the Earth itself is a giant electric resonator. The Earth acts as one pole of a giant capacitor, with the ionosphere as the other.

Having completed his experiments at Pikes Peak, Tesla moved to Long Island as Marconi achieved wireless transmission of signals across the Atlantic in 1901. With funding from multi-millionaire J. Pierpont Morgan, Tesla prepared to set up an electrical power transmitter; but when Morgan realized the true nature of Tesla's dream - to broadcast electric power to the whole planet from a single transmission tower - he terminated Tesla's funding. Tesla was ruined financially and his tower was literally blown up.

Scientific and economic attention focussed on Marconi's new technology, which was much less threatening to the status quo.

Scalar Waves

The basis of Tesla's system was not electromagnetic, but a type of waveform called longitudinal or scalar, which his tower propagated through the Earth. Longitudinal/scalar waves can propagate with very little attenuation - so little that standing waves can be set up on the opposite side of the planet.

According to retired Pentagon Lieutenant-Colonel Thomas Bearden, Tesla was using a form of energy which exists 'behind' the electromagnetic spectrum and the 'space-time continuum'. It's what the scientific community calls the "zero-point energy" of the vacuum or scalar value of zero (which is not actually zero, but is expressed as such in most formulae for 'convenience') - what occult tradition calls the ether. Bearden says an electromagnetic wave is the interaction of two intersecting scalar waves.

Tesla did not know that these longitudinal waves only become pronounced at extremely low frequencies (ELF), but his discoveries



now form the basis of modern ELF technology, including weather and psychotronic 'modification'.

In Tesla's time not much was known about the ionosphere. We now know that the Earth and ionosphere form a kind of sphere-in-sphere capacitor fed by the solar wind, with the dense part of the atmosphere acting as a leaky dielectric (insulator) between them. The ionosphere, fed by the Van Allen Belts, is the driving current and the molten layer below the Earth's crust carries the induced current.

Two investigators of Tesla technology in the early 1960s were Walter Richmond, a research physicist and engineer, and Thomas Bearden, then an army engineer. They planned to tap this induced Earth current for electric power by shorting out the Earth-ionosphere 300,000+ volt capacitor system.

The Solar Tap

According to Richmond, a temporary short-circuit called an *avalanche* - lasting only a quarter of a second - can be generated by floating a field wire 25km up into the atmosphere on weather balloons. This 'electrical avalanche' can create a 'cold' explosion about the size of a Hiroshima bomb (see *Nexus Issues 1 & 2*).

Richmond saw that a continuous avalanche was possible. By 1962 he had developed a theory of a solar tap: a continuous flow of controlled power which drains the ionosphere and is fed directly by the solar wind. This avalanche would burn the ground, Richmond said, unless properly insulated. Richmond's design for the insulator was a replica of the truncated Cheops pyramid, housing a resonant Tesla coil.

Richmond said there is sufficient power from a solar tap to power the whole world - or destroy it. The Earth is an electric motor in 'space' and an electric generator. With the tremendous increase in power that an avalanche within 30° of the pole would give, the 'Earth motor's' rotation would begin to speed up, though this would be fought by the generator mechanism below the crust. **If the avalanche continued, the Earth would eventually tear apart from increased centrifugal stress.** If the avalanche takes place more than 30° from the poles, the tap extinguishes itself with magnetic winds as soon as it reaches resonance. But if the avalanche takes place at or near the pole, the tremendous increase in power would speed up the crustal rotation and the poles would shift up to 30 degrees.

Richmond, also an accomplished archaeologist, believed that this actually happened in 6,600 B.C., when the ionosphere 'blew out'. Violent cataclysms shook the planet and tidal waves and hurricanes swept the lands, causing extinctions and wiping out ancient civilizations, according to Richmond, Dr Immanuel Velikovsky and others.

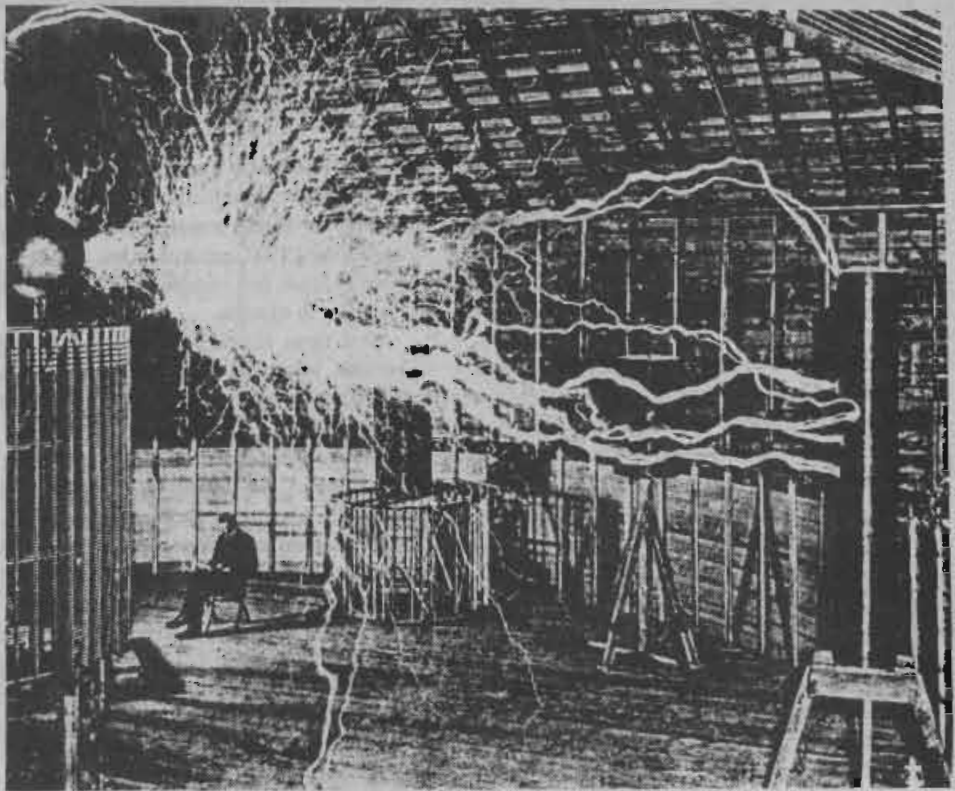
When Richmond took his research papers on the solar tap to President John F. Kennedy's science adviser in 1963, the papers were classified. Thomas Bearden, later retired as Lieutenant-Colonel, was a U.S. Army engineer who was receptive to Richmond's research, having studied Tesla himself.

Military Uses

In many published articles, Bearden constantly maintains that the Soviets have had an advanced knowledge of Tesla-ELF technology since 1960.

Bearden is convinced that the Soviets used psychotronic weapons to destroy the US nuclear submarine *Thresher* in April 1963 after backing down over the Cuban missile crisis the year before. The day after the *Thresher* was destroyed, Bearden says, the USSR successfully deployed a Tesla device to transmit an explosion to an ocean location 100 miles north of Puerto Rico.

Despite the prompting of genocidal geophysicist Gordon J. F. MacDonald and others, both the Soviets and Americans have shown considerable restraint in their use of this technology. As a member of President Johnson's Science Advisory Committee, MacDonald was advocating the use of the ionosphere to indiscriminately damage the environment. In one article titled *Brain Waves Around the World*, he tells how, by means of lightning strikes timed to coincide with the alpha-rhythm frequency of the brain, "one could



Tesla poses under the fireball inside the giant transformer at his Pikes Peak laboratory

develop a system that would seriously impair brain performance in very large populations in selected regions over an extended period."

He also wrote of selectively destroying parts of the ozone layer in order to destroy farm crops and herds.

The stand-off continued until 1975. Then, a draft treaty presented to the August 1975 Geneva Conference on International Disarmament by delegates from the US and USSR contained a ban on 19 ELF weapons which could cause such weather catastrophes as landslides, avalanches, volcanoes, earthquakes and tidal waves, as well as harnessing lightning bolts, guiding hurricanes to strategic targets, melting the ice caps, changing the direction of rivers, generating hail, fog and rain, and destroying portions of the ozone layer. US President Ford told the media that the US and USSR didn't have these weapons, but were signing the treaty 'just in case'...

Choice of Futures

Tesla/ELF technology is a two-edged sword. Bearden points to some spectacular implications of this technology, including antigravity, materialization and dematerialization, transmutation and mind-boggling medical benefits. John Bigelow writes in *Earth Energy* that this technology can be used to detect

secret nuclear and electronic installations anywhere in the world.

Tesla was aware of the social revolutions which could follow the application of his system of broadcast power and other discoveries. He envisioned a world in which the deserts would flower, arctic wastes would become fertile and war would be abolished. Carefully developed, this technology could enable us to modify the Earth's weather, stabilize the magnetic field, destroy nuclear waste, clean pollutants including radioactive fallout from the biosphere and even repair the ozone layer.

This technology gives us power over our destiny on this planet. Do we use it or abuse it?

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Readers with serious enquiries or relevant information are invited to contact the author via Nexus.

SOUTH PACIFIC STIRRINGS

What was once thought of as an American lake and Australia's back yard has suddenly become a region embroiled in ideological and colonial issues. The Southwest Pacific is no longer quiet or settled. The driving forces behind the unrest are the relationship between the colonisers and indigenous populations, and power and land ownership.

In New Caledonia a number of French and Kanak lives have been lost in the last few years. The recently elected French government has proposed splitting the main island into two provinces with internal autonomy - a Kanak north and French south - and a third province consisting of the outer islands, forming a Federation. Native and settler leaders have agreed to the plan, but convincing their followers is another matter. Recent French actions against Kanak separatists, dubbed murder by some, have fuelled dissention.

The other island nations, or micro-states as they are called, are united in their support for the Kanaks. As the last part of the world to be decolonised, many of these countries are less than 15 years old and independence and sovereignty are particularly sensitive issues. The French - with their insistence on treating a colony on the other side of the world as part of metropolitan France coupled with widely-abhorred nuclear testing - are perceived as the main cause of unrest in the region.

Palau

Although three of the four original microneesian territories have signed independence agreements with the US, Palau is the only

remaining Pacific US Trust Territory. The US wants an agreement which gives it the right to dock nuclear-armed vessels there for fifty years, but the 1979 Constitution has a nuclear-free zone clause that requires a 75% vote in a referendum to change.

After three forced referenda the clause still stands, but political opponents of Palau's nuclearisation have recently been harassed and even killed.

Palau is a string of islands 750km east of the Philippines. At present the negotiations over the US bases in the Philippines are shaky and Palau, seen as a strategically important substitute Pacific base, is becoming increasingly interwoven with these negotiations.

Palau has a population of only 15,000 and two-thirds of its income comes from the US. It has no resources, but despite its poverty has a bribery scandal revolving around a \$40 million power station that never became operational. The first Palauan President was assassinated after threatening to expose corruption and the US Government Accounting Office has been asked by Palau to investigate.

Vanuatu

Australia is involved with the other two major Pacific centres of political unrest: in June our government supplied tear gas and riot control equipment to Vanuatu at the request of their prime minister, Walter Lini, after a land rights riot which had been orchestrated by his rival, Barak Sope. They both wrote the 1980 Constitution together as allies. Sope became one of the country's wealthiest men and forged a 'Libyan connection' which

has resulted in at least fifty 'trainees' being sent there.

After the election late last year Sope challenged Lini for the leadership and lost. The Australian government favours Lini since he canceled plans for a Libyan People's Bureau in Vanuatu.

Fiji

Australia has not done the Fiji government any favours. Brigadier Rambuka was refused entry in June, aid programs have been delayed and tourism has suffered. Rambuka justified his two coups by claiming that Fiji's ties with the UK and the US and the land rights of native Fijians were threatened by a legally-elected government with an Indian majority.

But everything about the Fiji coups raises questions. Who were the non-Fijian men in balaclavas backing Rambuka in the first coup? What is the relationship between the Fiji destabilisation and coups and their signing of the anti-nuclear Treaty of Rarotonga a few months earlier? Was there a 'threat from Fiji extremists' that led to the second coup? Who were the arms found in Sydney for? Is the Indian Intelligence Service involved in smuggling arms, or does someone want to make us think they are? How many weapons caches are floating around the South Pacific - and Australia?

What is certain is that the Fiji army is the most effective organisation in the South Pacific and has total control in Fiji. Many Fijians have left and will continue to do so. Many younger and better-educated Fijians are applying to the embassies in Suva to emigrate, convinced that the coups have ruined the country and its economy.

Australia must tread carefully in the region. An emerging regional consciousness centred on the South Pacific Forum has joined the nationalism generated by recently-acquired independence. There may be the first stirrings of a future South Pacific Federation.

Australia is accustomed to being the junior partner and studying the actions of major powers for clues. In the context of the Southwest Pacific we are the major power, subject to intense scrutiny from the island states. The politics in the region have become volatile with strategic and local issues intertwining. If Australia wants to influence affairs in the Pacific, a careful reading of the political currents is necessary.

▲ Gerard



View Through a Crystal

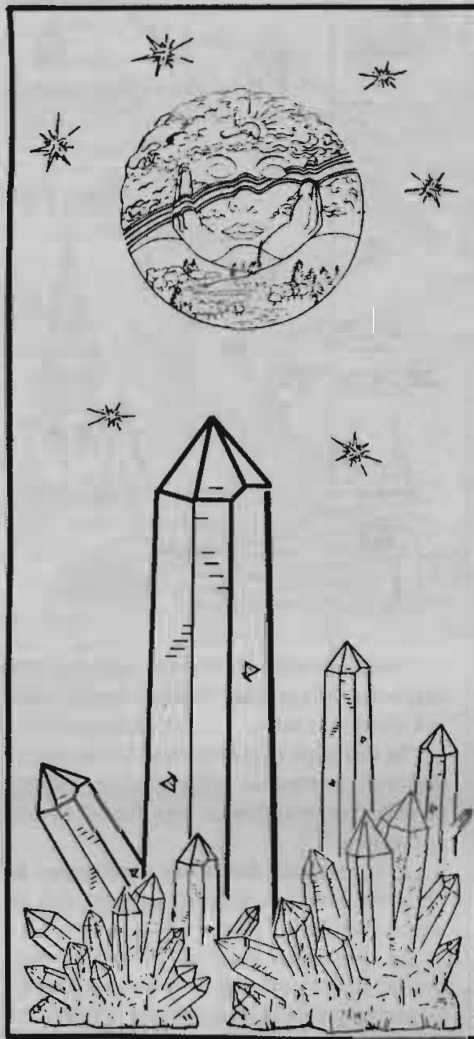
An Olde Worlde View of the Crystal Renaissance

Many of us involved with psychic development have watched with interest and concern the dawning of the new age. Self-proclaimed experts offer courses on all manner of subjects. Currently, crystal gazing (crystomancy) is very popular; unfortunately there is much incorrect information. Those of us who have used crystals for many years according to ancient oral traditions are concerned that pathways to the truth in this matter are being clouded.

There are genuine, reputable teachers practising out there, but they only charge nominal fees for their time, if they charge at all. Psychic knowledge is not something one can buy, it is a privilege earned by very few. Don't think that just owning a crystal will give you access to its secrets, no matter how many courses you pay for. True in-sight comes from within, from nature. No man or woman can sell it to you.

Many Westerners rush headlong into the psychic arts, but few people have innate talent (and the perseverance to develop it) in this direction. Most people can develop their psychic awareness to a high degree, but the dedicated follower of a path such as crystomancy is generally rare. To learn to scry is to seek initiation - not by humans, but from nature. This involves responsibilities most people are unwilling to accept.

Most quartz crystals are of little monetary value and should cost only a few dollars. For psychic purposes however, flawless rock crystal is best and is often expensive. Over years of usage you will put your own flaws/pathways in the crystal. Those beautiful rainbow-hued 'faults' in many crystals are the paths that have already been traveled - often by the elemental guardian spirits of the area in which the crystal was born. These paths may not always be beneficial or parallel to human evolution. An earlier 'owner' can still tune into the crystal and may not be happy to see you. How would you feel if people bulldozed your home to take your video and ship it half way around the world?



I've been told that 40 tonnes of crystal was imported into this country last year; I hope this is not true, because this would leave a nasty hole in the psychic auras of the areas from which they were stolen.

Once people went through much training and hardship to earn the right to look for crystals. Anyone who found one 'by chance' was considered especially fortunate. Crystals should not be taken en masse for commercial reasons. What's the intentional difference between killing rainforests for wood, murdering dolphins for tuna fish, and stealing crystals from their birthplace?

It's another thing entirely to cut and work a gemstone, as this often brings out the best qualities of the stone.

Crystal Use

Having said all that, if you have a crystal you should be able to use it by following the directions below. If you don't have a crystal, seek out a flawless one. If you can't find one; there's a message in that for you. If you have talent with crystomancy you will receive other crystals as you progress and may one day graduate to glass spheres.

If you have a crystal pendant which points downwards, do not wear it as it is for dowsing & pendulum work. Only crystals pointing upward are for regular wearing. Crystals work with energy which flows up your body.

Keeping your crystal clean is of the utmost importance. This is simply done by keeping it in a glass of water with salt in it. Change the water when you feel it's necessary - use your intuition. Do this for a lunar month and play with the crystal when you feel inclined. If you are really serious, bury the crystal in the roots of a tree growing in a power spot for a lunar month before putting it into the salt water.

After playing with your crystal and soaking it for one month, take it out and dry it. Then oil it with sandalwood oil and wrap in natural silk; to carry it use a small black silk bag.

Go to quiet areas in parks or bushland and meditate with your crystal. Quiet contemplation is the key. Allow the forces of nature to focus in your crystal and feel your heart open to the surroundings and your crystal; you will reach a state of peace and from this point will begin to heal from within. When you feel this you will have made your first step on a very enjoyable path of enlightenment.

From this point you'll be able to compare the teachings of others with those you have learned from nature herself, for both you and your crystal are her children. ▲

By Richard Celt

Recreational Politics

The prohibition of many recreational drugs is more than just a random abuse of civil liberties. It is deliberately maintained by governments as a tool for international political control.

Most countries are signatory to one or more "drug control" agreements — either of their own choice, or through diplomatic pressure from more influential nations. These treaties impose certain obligations on the governments involved, though in practice they are selectively enforced for political purposes.

The most obvious example of this cynical manipulation is the US attempt to oust Panama's General Noriega on the grounds that he is involved in cocaine trafficking. The hypocrisy of this action is apparent when it is realized that top US officials have known this since at least 1983, but didn't act until November 1987. *Since the mid-70s Noriega has been a paid agent of the U.S. and his activities were tolerated - even encouraged - as long as he remained on side with the U.S. government's Central American policies.* The sudden extradition attempts and media hate campaigns against Noriega are a result of him recently falling out of favour with Washington, who have decided to use the drug policy tool against him.

There are numerous advantages in using drug policy as a political tool.

Firstly, it's easy to disguise political assaults as police actions, and so avoid questions as to ulterior motives.

Secondly, there is a large and effective propaganda machine dedicated to spreading the false belief that all "illegal drugs" are evil, as is anyone associated with them. This means that any accusation of "drug crimes" automatically blackens the reputation of the accused and makes their position harder to defend, while at the same time distracting public attention from real issues.

It must be borne in mind that the manufacturers of "legal drugs" - who are responsible for over 95% of all drug-related deaths - are completely ignored by the same authorities which will balk at nothing in their persecution of those supplying less dangerous commodities.

In 1987, the US Attorney-General Edwin Meese (who recently resigned after corruption allegations) suggested that the



Air Force should shoot down any aircraft suspected of carrying "illegal drugs" and ask questions later.

In one high school in New York, police tortured a student with electric cattle-prods after marijuana was found in his possession.

U.S. cars and boats are confiscated if even the smallest quantity of cannabis is found on board.

In Australia our civil liberties have eroded to the extent that warrants are no longer required in many States for searching of homes or vehicles - as long as there is a 'suspicion' that drugs are present. Likewise for blood and urine tests - which are *not* designed to be random like alcohol breath tests.

The situation is made all the more repulsive by the fact that there were cynical political reasons for most of these drugs being prohibited back in the 1930s.

The international economics of prohibition, while both simple and obvious, somehow escapes all mention in mainstream media: when a product in demand is prohibited, it will be supplied by "criminals". The prices will escalate to cover the overheads of secret production and transport, bribery, etc. High prices mean that poorer nations are attracted to drug exports as a means of paying extortionate international debts. Inevitably, almost all third-world economies are boosted by

quasi-official exports of "illegal" products, often with the involvement of government officials.

The anti-drug enforcement authorities know this, but use it for political advantage by persecuting their enemies while ignoring the same actions performed by their friends.

These conditions create a natural link between drug prohibition and terrorism. High-priced drugs are shipped from producer countries in return for armaments from the developed nations which buy the drugs.

This is the case with the Nicaraguan "Contras", who have repeatedly sent cocaine and cannabis to the US in exchange for guns and bombs. In 1984, a funding exercise arranged by Colonel Oliver North even involved the landing of 12 tons of marijuana at Homestead Air Force Base in Florida!

Yet for some reason the "anti-drug" Reagan Administration continues to support the Contras, while taking the most extreme measures against others. Their latest plan involves the formation of a "multi-national drug task force" to take direct military action in the Caribbean region.

Closer to home, allegations of heroin and marijuana trafficking have been used to put pressure on the Palauan Government. Palau is a small but strategically important island to the north of Australia. In recent months the fierce controversy over the issue of building US military bases on the island has resulted in a rash of referendums and assassinations of opposition leaders. Accusations of official complicity in "drug trafficking" provide a powerful means of putting pressure on local leaders, who can be arrested and extradited to face 'trial' in the courts of their political enemies - all without a squeak of international protest.

The next time you see a news report about the "drug trade," don't let the propaganda machines program your brain - read between the lines!

- Kenny B. Satyr

Note: All events described in this article are taken from reports published in the Sydney Morning Herald in 1987-88, with the exception of paragraphs 8, 9 and 10, which is sourced from The Australian and the US Law Journal.

H-Bomb Victims Sue

In January, twenty Danes announced they would sue the US Government for up to one million kroner (\$A226,944) each over illnesses they say are caused by the 1968 crash of an H-bomb laden US Air Force B-52 bomber in the ice floes off Greenland.

The 20 former US Government employees from a US base at Thule in north-west Greenland (a Danish protectorate) were ordered to clean up 57 million litres of plutonium-contaminated ice after the crash.

An inquiry by Danish health authorities showed that 98 of the 1,202 Danes working at the Thule base in 1968 have since died; 40% higher than the expected mortality rate.

The Danes' Washington-based lawyer, Antony Roisman, said legal actions had to be filed before January 21st under the US statute of limitations.

The B-52 crashed on January 21, 1968 after its pilot, John Haug, told the Thule control tower he had a cockpit fire and was ordered to make an emergency landing. The blazing bomber smashed into the ice pack near Thule. The warheads of its 4 H-bombs, each containing 4.2 kg of plutonium, each had 60 times the explosive power of the Hiroshima bomb.

One of the cleanup team, Poul Hansen, 40, said "we picked up wreckage from the aircraft without any protective clothing, simply with gloves" on the night of January 22.

"Nobody told us there were nuclear bombs on board," he said. "They promised us 50% more pay and we were happy." Today Mr Hanson is suffering from leukaemia.

Rubin Erikson, another 'cleaner', said 500,000 tonnes of contaminated debris was packed into 600 containers and shipped to the United States on September 17th.

"In the end the Americans told us that we were temporarily sterile," he said. Mr Erikson has been sterile ever since.

Despite a Pentagon announcement that parts of the bombs were found on ice floes and it was impossible that any of them had broken through the ice cap, a Danish television report recently claimed that the bombs were still lying on the seabed.

Agence France Presse

• According to a People for Nuclear Disarmament survey in June only 22% of Australians think the 25-year US lease on North-West Cape should be renewed. 45% of the 2,500 people surveyed in three States want the base used only for non-nuclear defence; 17.5% want it closed.

NUCLEAR WASTE DUMPED IN AFRICA!

France has dumped two shiploads of radioactive nuclear waste in the West African nation of Benin. The magazine *Africa Analysis* said France has arranged for 30 years' special financial assistance to the impoverished nation in return.

In June the Nigerian military government alleged that radioactive waste from Italy had been dumped in an isolated Bendel State delta town. It threatened to shoot those responsible for importing the waste, who were guilty of an "inhuman conspiracy," they said.

Nigerian Information Minister Mr Tony Momoh announced that 15 people had been arrested after the discovery of containers in the tiny port town of Koko which held radioactive material. He said



Short Memory

There were literally dozens of accidents at the Chernobyl plant near Kiev during 1987 - after the reactor meltdown which irradiated Europe.

According to a report on the plant published by the Soviet newspaper *Sotsialisticheskaya Industriya*, in "10 months in our organisation there have been 36 accidents, including three with fatal consequences". The report came from V. Lukyanenko, Party head in a new town built for Chernobyl staff and families after the April 1986 accident.

Soviet authorities repeatedly promised that the Chernobyl complex would be strictly supervised after the world's worst reactor accident.

"Despite the measures which have been taken, incidents of radiation overdoses have not been excluded to the present time," Lukyanenko declared, adding that the plant's director had been disciplined for workers' security breaches during extraction of nuclear fuel. He said that supervisors and power workers did not make nuclear safety a priority.

Los Angeles Times

the town was evacuated and Nigeria was seeking foreign help to control contamination.

"This act of dumping toxic and radioactive wastes on our shores clearly violates international laws and conventions and Nigerian laws," Mr Momoh said. He accused an Italian expatriate of masterminding the imports with forged documents and said that a total of 3,884 tonnes of waste was imported in five shiploads between August 1987 and May this year.

Nigeria recalled its ambassador to Rome over the incident and ordered Italy to remove the waste.

All over Africa, toxic chemicals are being dumped by foreign companies in return for CASH.

AAP, Reuter

Nukes in Oz

US and British aircraft carriers brought up to 2,200 nuclear weapons into Australian harbours in the last 12 years, according to Greenpeace. The environmental group used a new study of naval nuclear weapons by the Institute of Policy Studies in Washington for data.

"We now have information that during the period between June 1976 and June 1988, 22 aircraft carriers entered Australian ports," says Greenpeace's Faith Doherty.

"According to the (study), these vessels routinely carry up to 100 nuclear weapons. The study indicates that 600 of the 678 naval ships docking in Australian ports since June 1976 were carrying nuclear weapons.

Ms Doherty says the US research showed that the US policy of refusing to confirm or deny the presence of nukes on warships is "pure cosmetics" - and that the Australian Government accepts this policy so they don't have to admit we allow nuclear weapons into our ports in peacetime.

• France's largest nuclear explosion since May 1985 was detected at Mururoa Atoll at the end of last May by New Zealand seismologists.

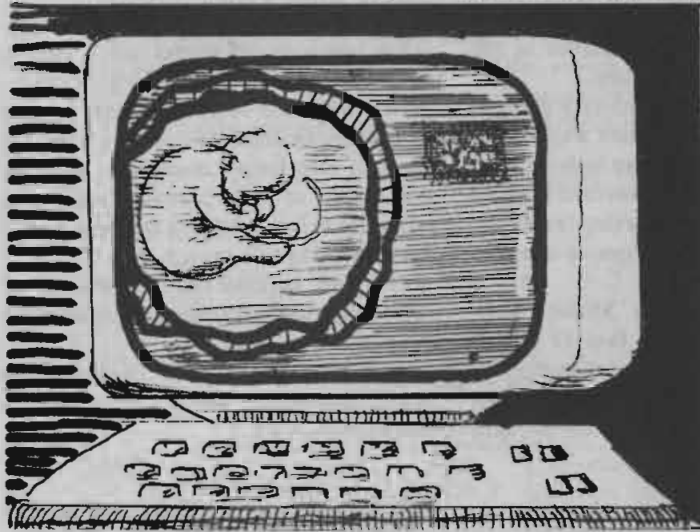
The eighty kilotonne bomb brought the number of underground nuclear tests carried out by the French at Mururoa to 97, says New Zealand Government seismologist Mr Warwick Smith. N.Z. also registered a twenty kilotonne blast on May 12th.

R.A.

Where To From Here?

by Nissa

At this point in history, with the advances being made in technology and the sciences, there's always room for more reportage on genetic engineering. This is an update in our series on this topic.



TWO GENETIC CODES

Scientists at the U.S. Massachusetts Institute of Technology have made a breakthrough in understanding how cells carry out their work of translating the instructions of the genetic code.

They have found that there are *two* genetic codes and that the second one is far simpler than anyone had imagined it could be. It is believed to be older and more primitive than the DNA code, and dates from billions of years ago when all life had less elaborate genetic blueprints, with fewer steps in its protein synthesis.

Professor of biophysics and biochemistry, Paul Schimmel and post-graduate student Dr. Ya-Ming Hou have found that the second code can use as few as two elements to direct a crucial cellular function. The primary DNA code uses four different chemical "letters" to spell out the thousands of genes needed to sustain the life of a simple organism. The second code's RNA-based binary simplicity suggests that tiny defects in the system can lead to disasters such as birth defects, spontaneous miscarriages and fatal diseases. The more complex DNA code can apparently tolerate many more mutations before the entire system goes beserk.

UNRAVELLING THE CODE

In March this year a committee of senior American scientific advisers proposed special funding for a project to unravel the genetic code of humans.

Called the *genome*, this code contains all the inherited genetic information needed to make a human being. When decoded, its information would fill one thousand telephone directories. The information in the genome is made up of a sequence of four different chemicals called *nucleotides* or *bases*. The *sequence* or order of these bases is the important feature that distinguishes individuals and species from each other.

Almost all human cells contain 46 chromosomes, which contain our DNA. There are approximately six billion nucleotides (or bases) in the human genome and about 100,000 genes in homo sapiens, each one accounting for about 1,000 pairs of these bases. More than 95% of the genetic message, therefore, appears to be redundant - it doesn't appear to contribute to the genes that code our life-giving proteins.

More advanced technology must be invented to read the full sequence and build maps of the human genome. In 1988 one researcher can decode between 50,000 and 100,000 bases per year. A complete sequence would need nearly 1,500 full time researchers working for a year.

One problem is handling larger pieces of DNA. Genetic engineers have used bacteria and viruses to 'amplify' smaller sections of DNA, but this only extends to DNA fragments of up to 40,000 bases. Cloning or duplication of those pieces has improved, but to give a complete picture of the genome would require roughly 1.5 million laboratory clones.

Dr. Maynard Olsen of Washington University, St. Louis, has reported a technique for constructing artificial yeast chromosomes that carry 30,000 to 40,000 bases of inserted DNA. If these artificial chromosomes can be improved tenfold, the number of clones needed for a complete library would drop to a manageable size.

Dr. Michael Thomas of the British Medical Association's board of science says gene manipulation could lead to activation of cancer-causing genes, and even endanger the human species with too much genetic interference. Techniques in genetic engineering have developed so quickly that hundreds of genes have already been partly or completely cloned. With our interference, the enormous diversity in the human genetic make-up could be disturbed. This diversity has persisted throughout evolution to allow the survival of the species when major environmental changes occur. By trying to treat and eradicate disease by gene therapy and selective abortion, it's possible to also deplete the human gene pool, making it much harder to survive future environmental challenges.

EMBRYO TRANSPLANT

In breakthroughs in the US and England, doctors can now remove early embryos from their mothers, screen them for genetic diseases and put back the healthy ones. Tests were first done on Marmoset monkeys where small sections of cells were sliced off the embryo, screened and returned to the marmosets' wombs. All the embryos grew into normal monkeys.

In California Dr John Buster has successfully moved embryos fertilized in one woman into the womb of another woman who gave birth to a healthy child. In London, Dr Marilyn Monk has recently detected signs of an inherited disease in a single-celled embryo.

Breakthroughs are being made - but new legislation banning experiments on embryos is being prepared by a number of countries. This may prevent doctors from using these new techniques, but is

intended to delay research until more is known about consequences arising from this work. Unfortunately, this legislation will also drive some biological work 'underground'.

NU AGE ANIMALS & FOOD

All new forms of genetically engineered laboratory animals may soon have to be patented under Australian law. The Patent Office recently received its first patent application from a German company, *Transgene*, to cover a new range of animals including mammals, birds, rodents and fish. This would mean that farmers would be required to pay royalties for the adult animal and its offspring.

Biotechnology food fabrication is promising new sci-fi consumer food, with 'improved' taste and nutritional value: Caffeine-free coffee beans, cheese-flavoured broccoli, crunchier carrots and simulated shell-fish. For the weight conscious, calorie-free chocolate cake.

In the early 1970s, Procter and Gamble developed a "no-fat fat", sucrose polyester, known as *olestra*. The body doesn't absorb sucrose polyester, so therefore produces no calories. Permission has been applied for to use it as fake fat in cooking oils and snack foods.

Cows and pigs are being genetically manipulated to grow faster and have an altered protein-to-fat ratio, producing leaner meat. Milk from these hormone-injected cows is already on sale.

In the U.S., food companies are trying to develop miniature vegetables and fruit. Studies are also underway to alter genes in vegetables and fruit to delay ripening and arrive in the shops at peak freshness. We're getting beans and corn that don't take long to cook and popcorn that 'puffs up' larger.

Our interference and need to control nature is leading us on many



strange and bizarre paths. Rich consumer societies are setting the direction of much research. Time will show us if we have created a Frankenstein out of touch with the needs of humanity. We may yet use this knowledge, information and technique in the service of humanity and the planet.



Gene Shears Snip Species

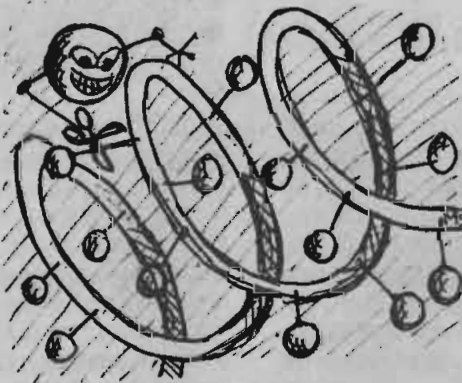
CSIRO scientists have found a way to "switch off" a single gene. The discovery may allow scientists to target and disable any single gene responsible for producing unwanted or undesirable traits in any living thing.

"I think this will be one of the most powerful tools in science to emerge in recent years," said chief of the Division of Plant Industry, Dr Jim Peacock.

The discovery makes the creation of many new plant and animal varieties possible. It could be used to switch off genes that produce unwanted food flavours or to remove unwanted chemicals from foods.

Dr Peacock said the division has applied for patents on the technique. Speaking at the May ANZAAS Congress, he said the technique involves adding a gene which has the biological effect of a pair of shears, dissecting and destroying only one target gene.

"We realised there was a way to harness that mechanism to use it to our advantage in changing plants, animals and micro-organisms used in biotechnology," Dr Peacock said.



The discovery was made while conducting basic research into plant viruses. The team found a naturally-occurring example of the gene within a virus.

Dr Peacock believes gene shears may even be able to stop or slow mutations that allow some viruses to develop rapid resistance.

"It is, if you like, a way of beating evolution," he said. The division is now actively experimenting with the gene in a number of plants and animals.

Bullet-proof Spiders' Silk

British biotechnologists have found a way to genetically engineer spiders' silk in the laboratory which is leading to new high strength and bullet-proof materials.

Engineers have long envied the strength of spiders' silk. Researchers at PA Technology in Hertfordshire, Britain noticed how well spiderwebs withstand high-speed impact with flies and studied the very strong "drag-line" silk which spiders produce to stop them falling to earth. The team isolated the genetic sequence spiders use to manufacture drag-line silk and injected it into a bacterium which can read it and reproduce the silk to order.

"It's very tough stuff and it might even have possibilities in the manufacture of car bodies and structural engineering," said team head Dr Nick Ashley.

It is also seen as a market contender for bullet-proof vests and can be used for the same purposes as kevlar.

The Times (London)

Why Not

By John Burke

In the last issue of Nexus I wrote about the alchemic view of digestion. I am aware that there seem to be contradictions between this and modern medicine.

For instance, in modern medicine the ion exchange in the lungs is seen as happening with the out breath, as a discharge of positive (acid-forming) ions. I see this process as the shedding of unwanted, potentially fixed patterns... part of the body's selective ingestion. Although this process is more easily observed, it does not negate the importance of the lungs as a passage into the body for the elusive negative ions... nor, for that matter, the importance of the constant tuning and adjustment that is made possible by the ingestion of positive ions present in and resonating to the environment at that moment.

You see, I don't think modern medicine as practised by orthodox doctors is wrong... but it is young and as yet incomplete.

For instance, modern medicine pulls plants apart to find their 'useful' active ingredient, such as aspirin... this usually means taking away the specific alcohols and oils of that plant, which it used to digest and direct the substance in the first place.

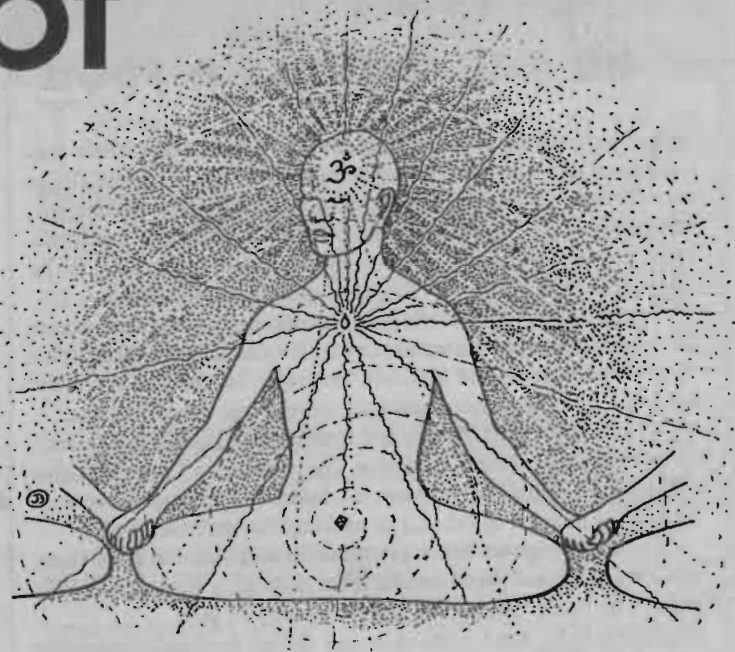
As an example, aspirin, which is such a separated substance, produces short-term spectacular relief of symptoms... but if not combined with the re-introduction of the other essences, by using an organic (organised for life) source such as White Willow Bark, it leaves corrosive residues which in turn create long-term problems, that are often worse than the original.

Another problem intellectual analysis has is that it tends to think a truth is the truth.

The spleen may seem to be simply a storehouse for extra blood, needed in case of sudden blood loss... but the constant furnace of digestion is refining the salts in this held blood... purifying it by the selective production of particular patterns of positive ions to make specific pattern-forming amino acids, which are then used to fit the body into its present environment. And yes, there is a consciousness running this process... you... but not the you that's reading... you, your spleen. This is the you that thinks in images of magnetic and gravity pulses... and strings of life patterns. To that you, the functions of the "general of the blood", as the Chinese call the spleen consciousness, is clear and simple. It draws the particular salts and ions (patterns as well as particles) that it needs from the blood, the pancreas, the colon, the intercellular fluid, the nerves, the chi system, the combined gravity field of all the planets and the sun, the galaxy, etc, etc...

Mind-bending connections? To our conscious mind, yes... but to that aspect of life that is focusing as you, your spleen, it is as easy as reading.

Accessing this level of your own awareness is a matter of freeing yourself from limiting word-based thought, be-



All of those conditionings that we all wear as civilization are actually only a thin veneer over our real but hidden selves

cause in words you can't think of anything that you haven't already defined and limited by naming it. But you *did* think before you knew words, when you were an infant... and this faculty for wordless thought is still here, with you now... experiencing your word-stream thought, but also many other threads of your being... including the minds within the minds of your organs, cells, energy fields and flows, and an incredible number of individual particles.

Each level of consciousness is aware of and responds to every other level, whether it recognises this fact or not.

Every cell of your blood, for instance, is individually responsible for the well-being of your body. If it does not act in accordance with the equilibrium of the body it, itself, is brought under increasing pressure of awareness from the organ it is in. This awareness spreads... until your conscious mind is brought to focus. If your emotional reaction to this pressure is instinctual fear followed by retreat, the already undirected and afraid internal consciousness is left to cast about for information and self-identification outside your control. It receives these impressions of its own course of action in the form of volatile oils, like pheromones... the scents people around give off when they are confronted with your situation. If they feel you as "sick"... that is how your blood is programmed.

If, on the other hand, your body is not TABOO to you and you respond with relaxed inquiry, the cell gets support and direction, and the conscious mind gets inspired to do that thing that will regain your health... apparently spontaneously.

Paradise?

Life's Search for Life Part 4

Using words and seeing the cell minds as "people-like" can help your conscious mind organise its side of the communication... but remember that your cellular mind is seeing the pictures that you visualise... not listening to your words. It's smelling how your emotions are reacting to it... and, unless you take care to visualise your own paradise, it is being programmed with and believing all the most intense gut reactions of the culture around you.

It takes a strange sort of courage to recognise the art of a nature-spirit working through you... creating mucous and elimination... to fit you into the changing needs of life in our radically-redrafted environment. Especially when those around you constantly project fear and "demon/disease" emotionally charged images at it and you. The hardest is when you see this happening to those you love.

A parent's honest, loving concern directed by an accepted authority's dead-end diagnosis and "if I can't help you no-one can" arrogance can be a deadly force. Whereas a supportive, calm reassurance that elimination, seasonal and growth changes are natural and healthy from a calm parent can counteract the pressure from the culture.

It's worthwhile to practise thinking non-verbally. Art, music and dance are all wonderful training for communication between our levels of consciousness, because they remind us that we can think without words.

You may be surprised to find that what you think and what you visualise are not always the same. You could think of peace as a sunny day in a clean, clear river having a good time with friends. Here the picture matches the words... but... If you think of peace as the absence of war... often (not always, I know) the strongest emotional picture in that stream of thought is war... and this is what other key levels of consciousness are paying attention to.

The Long Memory

There are many techniques around these days for reviewing past lives. Whether these memories are the memory of your immortal soul or perceptions of more physical patterns held in the genetic structure, or a mixture of both, is hard to say.

My own "long memory" came from learning how to think in non-verbal languages... specifically the languages of smell and visualisation.

Nothing is ever forgotten... by the head, yes, of course it is... but somewhere in your body is the smell... the real memory of everything that has ever happened to you.

The long memory unfolded as a series of connected dream images, at first during sleep, then also during



waking contemplative moments. At first these memories were violent and I got the impression that life was a degenerating, spiteful thing. But... once I had released this pressure and my memories flowed more freely... less pained by the distortion of suppression... I remembered that the vast majority of life's energies are involved in the expression of love and the enjoyment of harmony... I saw millennia of peace.

I know that the history we learn in school is full of battles, slavery and insane ideas of power. But remember that these so-called "ancient histories" only go back six to eight thousand years. A short time in our long history. All of those conditionings that we all wear as civilization are actually only a thin veneer over our real but hidden selves.

The undistorted human animal is no more "out of control" than any of the Earth's children. Nor are we less natural than any bird or fish.

GAIA - The Living Earth

One of the common threads in prehistoric thought is that the Earth itself is a living being. In all our root cultures the governing body was a circle of the people... convened at a place of power... a place that focuses the Earth's awareness... similar to our body's acupuncture points... usually through the medium of an elder tree or stone... with the conscious mind of Earth itself.



Accessing this planetary level of our consciousness involves experiencing a "group mind". The modern concept of many individual brain cells thinking as one entity is a microcosmic image of this. One macrocosmic image is working with concentration, breath and directed visualisation in a circle of friends. This changes your angle of perception from the centre of your personal perspective... to the edge of the group's perspective... looking in... instead of out... the part of the mind focusing on perception rather than being focused by perception.

Remember that the language the planet's mind thinks in is closer to what you, the reading mind, would call a feeling rather than a thought. So you have to mean what you say... because the planet is listening to your whole being... not just your conscious thought languages.

Selecting the Planet's Future

When a prophet such as Nostradamus... or for that matter, a modern medical or political journalist... looks at the future, they translate the experience of an as-yet unset future within the bias of their own experiences. If this translation is given support and authority... if the visualisation is invested with enough emotion and focused by clear rationale (not necessarily true, just clear)... it will tend to be believed by the planet's mind as the true will of the people... and it will focus its awareness subliminally to bring about this manifestation.

To break up the punitive prophecies our technological and theological guilts have given us... sit in a circle with like-minded friends... chant any of the names of the Earth Mother... Gaia... Tya... Ma... remembering you are like the blood of her body. Not only to synchronise this memory but also your breaths... to focus you as one being.

Relax your body, let the tension drain out of you like sand from an hourglass, leaving you empty, light and clear... breathe gently and deeply.

Concentrate on the centre of the pelvic bowl... visualise a small, perfect, ice-blue crystal... let your voice become a deep, satisfied purr... the mantra HUM... imagine deep in the crystal a tiny, tiny image... of a living joyous paradise... use the mantra 4 times to focus your individual crystal/salt... with the 5th, visualise a blue line connecting all the circle's crystals... on the 6th, see the circle pro-

jected into the centre as a web... with the 7th, project it out behind you, spreading out through the planet's web of life energy, its acupuncture meridians... the 8th mantra completes the whole Earth globe... bring your attention to the centre of your chest... visualise a drop of rich, red-gold oil... call it "unqualified compassion"... see deep inside it the tiny image of the "Jiv Atma"... the perfect self... create the red web of compassion using the same pattern of 8 mantra... the mantra for this essence is a satisfied, sensual, sigh... the mantra AH... then bring your attention to the centre of the head... visualise a tiny, intense spark of brilliant all-colour light... call it bliss... extend this web of spirit in the same way using 8 high falsetto OM mantra... that ring like a clear bell in your head.

During the experience of this distillation of your essences, images will spontaneously arise in your conscious imaginings. If you don't like these images, direct them with your imagination, coupled with the timing of your breath, up to the dissolving spirit, the OM in the head... remember, what's shit to you is fertiliser to the Earth... you're not giving her your problems, because she doesn't think in guilt-bound concepts... she simply receives emotional intensities which are all the same to her.

If you like the image, nourish and empower it with the emotional warmth of the compassionate soul... the mantra AH in the chest... when you are completely satisfied with it, and it contains no role that you, yourself wouldn't like your loved ones to live... fix it into the salts by taking it down with your breath and imagination to the crystal salt in your pelvis... the mantra HUM.

The experience of this renaming of our essences is a powerful cellular memory and can lead to your own long memory unfolding. You could close your circle sharing as a mantra...

I AM LIFE
HERE... NOW...
ALIVE
THE CONSCIOUS BLOOD
OF PLANET EARTH
I DARE TO DREAM
OF PARADISE
FOR ALL THINGS

Or make up your own mantra.

▲ © John Burke 1988

Hatha Yoga

Life/Soul is like a clear mirror,
the body is dust on it.
Beauty in us is not perceived,
for we are under the dust.

Jalaludin Rumi.

The purpose of hatha yoga is the refinement of prana, the body's energy flow. The other uses to which yoga are put are components of this prana refinement. Yoga can be practised maintain health, an art, as a preparation for meditation, or a meditation in itself. Even if a student comes to yoga with the sole intention of curing a backache, benefits will be experienced on subtler levels with steady practice.

The controlled thorough stretching stimulates the acupuncture meridians. The organs and glands are compressed and stretched, promoting their correct function and the elimination of toxins. Joints and particularly the spine are kept "juicy" (supplied with fresh nutrients), reducing the possibility of arthritis and osteoporosis. The joints and spine are encouraged to maintain their correct alignment and full range of movement throughout life. Blood and lymph circulation is stimulated, especially by inverted postures such as the head stand.

Although the normal practice of yoga doesn't develop a muscular physique, it keeps muscles well-tuned and supple. Just as importantly, the very conscious slow flowing movements of yoga improve co-ordination, balance and poise. Yoga is akin to an art-form. As Yehudi Menuhin wrote:

"The practice of yoga induces a primary sense of measure and proportion. Reduced to our own body, our first instrument, we learn to play it, drawing from it maximum resonance and harmony. With unflagging patience we refine and animate every cell as we return daily to the attack, unlocking and liberating capacities otherwise condemned to frustration and death."

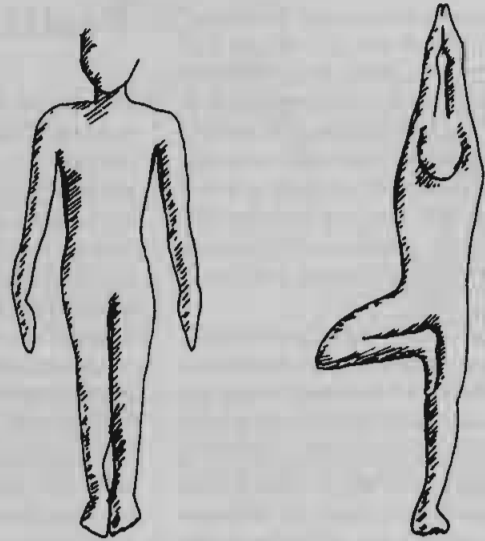
Furthermore the postures are beautiful in themselves and the sensations you experience while practising them with relaxed concentration are exquisite. Excessive pain indicates incorrect and probably impatient practice.

The practice of pranayama (breathing exercises) especially leads to a refinement of the nervous system, senses and sensibility. Although yoga has a traditional system of ethics called *yama* and *niyama*, steady practice almost spontaneously leads to greater harmonisation of the individual and their interactions.

Hatha yoga is generally acknowledged to be a preparation for raja yoga, i.e. meditation, since when the body is working perfectly it can be forgotten for long periods of stillness. Hatha yoga can however, become a beautiful meditation in its own right, like Tai Chi.

After sufficient practice you will master the postures so thoroughly that you forget the rhythm, the movement, even yourself. At this stage, you are in a trance; your five attributes (form, perception, consciousness, action and knowledge) are all empty - this is meditation in action and action in meditation.

There are many yoga schools, each with its own approach. In choosing a school you should be guided by how the classes feel. For instance, after the class do you feel sore and exhausted or energized and relaxed? A beginner must expect a certain amount of soreness - you really discover parts of your body which you never knew existed.



Here are two postures for you to try:

TADASANA

Mountain

1. Stand erect with your feet together, heels and big toes touching each other. Rest the balls of your feet on the ground and stretch all your toes flat.
2. Tighten your knees, pulling the knee-caps up, contract your hips and pull up the muscles at the back of your thighs.
3. Keep the stomach in, chest forward, spine stretched up and the neck straight.
4. Don't bear the weight of the body either on the heels or the toes, but distribute it evenly on them both.
5. Ideally in *Tadasana* the arms are stretched out over the head, but you can place them by the side of the thighs.

This pose helps you master the correct method of standing.

VRKSASANA

Tree

1. Stand in *Tadasana*.
2. Bend your right leg at the knee and place your right heel at the root of your left thigh. Rest the foot on the left thigh, toes pointing downwards.
3. Balance on your left leg, join the palms and raise your arms straight over your head.
4. Stay for a few seconds in the pose breathing deeply. Then lower your arms and separate the palms; straighten the right leg and stand again in *Tadasana*.
5. Repeat the pose, standing on the right leg, placing the left heel at the root of the right thigh. Stay for the same length of time on both sides, come back to *Tadasana* and relax.

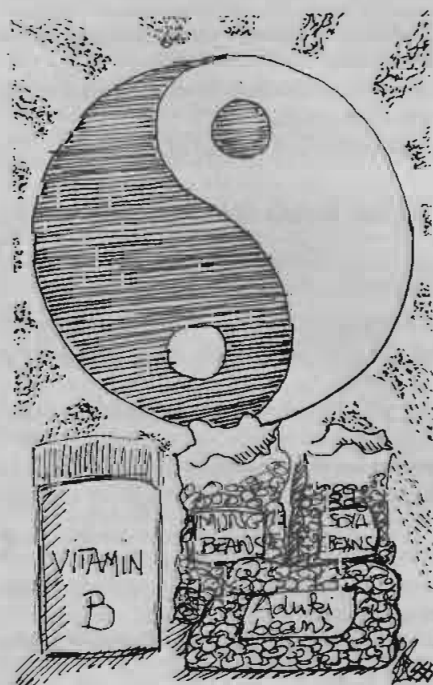
This pose tones the leg muscles and gives you a sense of balance and poise.

Emanuel Lieberfreund

Beans. You love them or you leave them! On a grain-based diet you usually love them. The protein of beans is an important complement to grains in supplying the full vitamin B complex. This nourishes the nervous system producing a calm and centred outlook. It's important to avoid foods such as sugar, which depletes the body of vitamins and minerals and is the fuel for such feelings as 'spaciness', unfocussed thinking and cranky behaviour.

Grains and beans have traditionally formed a pair in dietary systems worldwide. Frances Lappé's 'Diet For a Small Planet' put the theory of bean and grain complementarity in Western terms. But way before that it was George Oshawa's writings on macrobiotics that placed grains and beans as 'principal food' which sparked the wholefood consciousness revolution.

Wherever you go in the world you witness this classic combination. In Mexico and South America it's cornbread and black-eyed peas. Aduki beans, soybeans, rice and millet are the basic foods of Japan and China. In India it's lentils, chapati, rice and mung beans. From the Middle East we have chick peas with couscous and bulgar wheat. And in Europe, kidney beans, split peas and white beans are complementary to wheat, barley and rye.



Protein Alternatives

Because of their protein content, beans are body-building and warming foods. They provide us with protein needed for body repair without the cholesterol, fat and toxic nitrogen by-products of meats. When people switch from an animal protein diet to a grain-based diet, beans play the important nutritional role of supplying complementary vegetable proteins that can be easily used.

Grains and beans are slightly acid forming. That is why it's important to eat them with alkaline foods such as vegetables and condiments such as miso, shoyu sauce, salt, umeboshi plums and gomasio kelp. The warming effects of beans manifest themselves especially in such dishes as soups, stews and casseroles. In macrobiotic cooking it is always recommended to cook beans with a strip of sea vegetable which helps the acid-alkaline balance as well as 'opening' up the beans to water and fire energies, and softening the protein for digestibility.

Kombu sea vegetable is generally used for this purpose. It's rich in alginic and glutamic acid. Alginic acid is the strong binding agent that holds the plant structure together. Because of its indigestible nature and binding quality, it acts as a natural cleanser for the intestines by gathering together toxins from within the colon wall and allowing their natural elimination. Sea vegetables have been proven to take out heavy metal wastes from the body, including radioactive wastes. The sales of sea vegetables went up dramatically in Europe after the Chernobyl incident. Glutamic acid has the ability to soften the fibres of other foods; this reduces their cooking time and improves their flavour. Glutamic acid is a safer and natural version of MSG, which is now chemically synthesised from molasses. Sea vegetables increase the digestibility of beans as well as adding valuable nutrients, especially trace elements including iodine which is needed for proper thyroid function.

Now, let's not forget the adorable soy bean. It is the highest in protein of all beans and has a nearly 'complete protein' base of essential amino acids. Soy products such as tofu, miso and tempeh add richness and diversity to grain-based meals. Tofu is considered a cooling (yin) food in macrobiotics. Therefore it's good in hot weather or to complement foods that have a warming nature.

However, tofu is not a wholefood (it is made only from the milk of the soy bean) so it's important to use it wisely. Too much tofu can cool the sexual organs and circulation and can take zinc from the body. It's also important to avoid in underactive thyroid problems.

Miso is made from soybeans and a grain fermented for a length of time. This produces a nutritionally rich, alkaline forming, warming food. Because of its contractiveness and gathering action it's great for movement, physical abilities and strengthening to the kidneys and liver. It also nourishes the intestinal flora. I have found that even though it is a fermented food, because of its properties it can be successfully used once a week for conditions such as *candida albicans*, along with macrobiotic foods and cooking principals.

Tempeh originated in Indonesia. Like miso, it's rich in B-vitamins including vitamin B12, because of its fermentation. Microbiological activity in fermented foods like Tempeh increases the food's energy level and these organisms have been shown to have antibacterial properties, therefore making them effective as disease-preventive agents. Tempeh is delicious sauted with a few drops of shoyu added.

Too much fermented food - wine, beer, pickles, sauerkraut, miso or tempeh - can cause problems. On the other hand, the right amount will aid digestion, especially when the meal is high in protein, fats or grain.

Other Interactions

So far I've written about beans from a nutritional perspective. How do they fit into our food spectrum matrix of yin-yang energies, what organs and emotions/feelings do they relate to and how can they be used medicinally? We can better understand the life energy's flow in the body from the ancient oriental medical classification, the so called *five phases* or transformation theory. These stages happen everywhere in the world, they are movements from expansion to contraction and from contraction to expansion. This cycle is repeated endlessly.

Practically, this means that all phenomena can be fully grasped by yin/yang, which originates from the Infinite Oneness. The world of non-matter is a huge world in comparison to the world of matter. In order to understand the

material world we must see that matter is transformed and condensed ki (chi) energy. Then it is much easier to understand this material body, this world and this entire universe.

Our ancestors saw that one force was coming in upon the Earth and that another force was going out from the Earth towards space. The incoming force, which is moving from the infinite periphery of space to the centre of the Earth, they called heaven. And the outgoing force that they saw was moving from the centre of the Earth towards the periphery of space, they called Earth's energy. This Earth's force is being generated by the rotation of the planet on its axis.

Since all phenomena are created by the combined forces of Heaven and Earth, all phenomena have these complementary yet opposite tendencies. In the body and mind, the study of macrobiotics, shiatsu and acupuncture categorises these tendencies into yin and yang influences: e.g. meridian pathways, the contractive/expansive effects of foods, climates, colours etc.

The 5 Phase Cycle

We apply this understanding to bring harmony, balance and direction to our lives. We enjoy variety and distinctions. The uniqueness of yin/yang lies in its simplicity. A more complicated and detailed model for balance is offered by five phase theory, or *sheng cycle*. In trying to understand these stages, we must see them as stages or characters of ki. The solid state is very tight and condensed. An example of this phenomena is metal. The liquid state is ki beginning to expand. The wood state is further expansion upward and outward. Then the greatest expansion in this cycle is the plasma state. This resembles the activity of fire, when the electrons become very active. After the expansive state of plasma, ki reverses its direction, as extreme turns into its opposite. Now it goes more downward and inward towards solidification. This is the soil state. If we observe nature, we can see things that represent these archetypal stages; the image of a tree is energy going upward and out.

These states nurture each other. As the classics express it: wood fuels fire, fire burns the wood to earth (ash, soil), which hardens it to metal. Metal heated turns into liquid (water) and the water nourishes the tree (wood). The sum of the five phases forms a whole. The year can be divided into spring, summer, late summer, autumn and winter. Each phase is associated with organ systems, flavours emotions, activities, available foods and cooking styles.

There is a tremendous amount of detail in this model, and it would be too complex for the purposes of this article.

The kidneys belong to the water phase of energy, because they control the fluids in the body and raise liquids upward and then outward. When their energy becomes weak, fluids accumulate in the legs. Beans relate to the water phase and are strengthening to the kidneys. A similar type of ki to that which produces beans is found in this phase.

Water energy also relates to darker colours, the emotions of courage and fear, salty flavour, buckwheat and wintertime. In oriental medicine the kidneys control the sexual organs (they are from the same embryonic structure, which later separates to form the ovaries (internal yin force in women) and the external testicles (yang fire in men). Healing the kidneys in turn strengthens reproductive ability and sexual vitality.

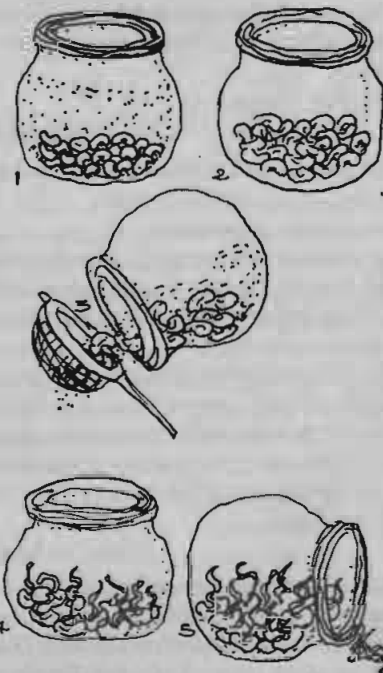
I will write further about the five phases in future articles. I hope that I have outlined the dynamics of the transformations, where our essences - sexual, social and spiritual, converge - and how we use foods and cooking to help us spiral towards completeness and the oneness of life.

Here are some medicinal bean dishes which strengthen the kidneys, bladder and sexual organs; also great for warming, 'building up' foods for winter, and to complement any grain-based meal.

Aduki Beans

We use kidney beans for various kidney problems. They also help to regulate bowel movements, making elimination very smooth and regular. Aduki beans are also very useful for regulating menstruation. If someone has irregular menstrual activity or cramps, then she can take a little cooked aduki beans every day. Cook one cup of aduki beans to 2-3 cups of water with strip of kombu for 1 hour and season with shoyu or salt. The juice makes an excellent medicinal drink.

Beans, Grains and Balance



Roger Green is a macrobiotic consultant and teacher and co-ordinator of the Australian School of Macrobiotics, 53 Glebe Point Rd, Glebe. The school runs a 16 week certifiable course in macrobiotic cooking and healing, also weekend workshops in 'getting to know macrobiotics'.

The school has a Healing Food Clinic where, one day a week, people come in to learn macrobiotic cooking and preparation and share a meal. Shiatsu, naturopathic and chiropractic services are available. For details phone Roger Green on 6601199.

Aduki, Kombu & Pumpkin Dish

This is the number one dish for any blood sugar problems such as diabetes. You need one cup of aduki beans. Wash and soak for 4-6 hours or overnight. Soak kombu seaweed and cut into 1 inch squares. Use pumpkin if in season, otherwise you can substitute carrots or parsnip.

- 1 Place kombu in the bottom of pot.
- 2 Place the aduki beans on top.
- 3 Cover with water.
- 4 Bring to boil, simmer 30 minutes.
- 5 Cut pumpkin into 2 inch chunks. You need about the same quantity of vegetable as beans.
- 6 Place the vegetable on top of beans.
- 7 Sprinkle lightly with sea salt.
- 8 Cover and cook for another 25-30 minutes until beans, kombu and vegetables are soft.
- 9 Towards the end of cooking, season lightly with shoyu.
- 10 Cover and cook for a few more minutes.
- 11 Turn off flame and allow to sit for a few minutes and serve

Mints & Thymes

MINT

In Greek Mythology, Pluto fell in love with a nymph called Menthe. His jealous wife Proserpine bewitched Menthe, turning her into Mint and dooming her to grow in the shadows and the damp.

Family: *Labiatae*

Varieties

Mentha Aquatica (Water Mint) - grows with lilac flowers up to two feet, grows in Marshy spots;

M. Spicata (Spearmint);

M. Piperita (Peppermint) - a cross between Water and Spear mints;

M. Piperita citrata (Eau de Cologne Mint) - lemon scent;

M. Suaveolens (Apple or Egyptian Mint) - pale pink flowers, downy leaves, apple flavour;

M. Villosa (Bowles Mint) - grows up to four feet, best culinary mint;

M. Requierii (Corsican Mint) - tiny leaves up to one inch (2.5cm) high, mauve flowers, strong peppermint scent, good ground cover;

M. Pulegium (Pennyroyal) - peppermint scent, repels ants and fleas; ancient sailors purified drinking water with dried pennyroyal - also an abortifacient.

Mint's Action

Mints are Carminatives (they aid digestion, reduce gas and relax the stomach); Anti-spasmodic (relieve cramps); Aromatic (stimulate digestion, having pleasant flavour); Diaphoretic (improve the circulation of the extremities); Anti-Emetic (prevent Vomiting); Nervine (soothe nervous system); Antiseptic; and Analgesic (reduce pain). All mints contain menthol.

Uses

One of the best Carminatives, mint eases hysteria and anxiety. It's good for colic, dyspepsia and acts as a mild anaesthetic on the stomach wall, preventing nausea and vomiting. Good for travel sickness, colds, fever and influenza. As an inhalant, mints reduce nasal catarrh - or they can be applied externally on itchy and inflamed skin. Relieves painful periods (dysmenorrhoea) and morning sickness.

Preparation: Pour one cup of boiling water onto a heaped teaspoon of dried mint leaves, infusing for 10 minutes. Drink as required - but at night, peppermint can cause insomnia, and pregnant women should avoid pennyroyal completely.

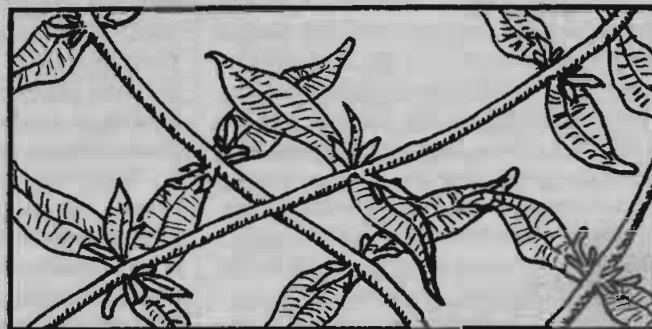
Description: A perennial, mint stems have 4 sides and flower (from white to Purple) in Summer.

Harvesting: Cut and dry the stems (DO NOT BRUISE). When the flowers have just formed, remove and store the leaves in an airtight jar.

Propagation: Since all mints hybridize easily, they should be grown from cuttings or by layering every three years - otherwise they revert to 'common' Mint.

In the Garden: All mints need rich well watered soil, sunshine (but DO NOT allow leaves to scorch) and a neutral soil (pH 6 to 8). Their major disease is 'mint rust' (a fungus disease common to mint and spearmint, causing the lower leaves to distort, becoming covered with small orange spore patches which travel up the stem, killing the plant. Remove any healthy plants and light a fire on top of the affected soil to destroy the spores.

Companion Plants: Grow near cabbages (repels cabbage grub); mint also repels aphids, flies and ants. Rub Pennyroyal on pets to repel fleas.



In the kitchen: Apple mint goes well with fruit or salad; Eau de Cologne mint with peas or citrus fruit; Spearmint in fruit drinks or with potatoes; Peppermint with fruit or as tea.

THYME

Family: *Labiatae*

Varieties: *Thymus Vulgaris* (common Thyme);

Thymus Serpyllum (Mother of Thyme);

T. Serpyllum westmoreland (Turkey Thyme);

T. Citriodorus (Lemon Thyme) - up to 18 inches high, dark green shiny leaves, lemon scent;

T. Argenteus (Silver Posie Thyme) - green leaves with silver edges, pink flowers and a delicious rosemary scent;

T. Citriodorus aureus (Golden Lemon Thyme) - green leaves with gold edges; *T. Herbaborona* (Caraway Thyme) - low growing, magenta flowers, caraway scent;

T. Minimus (white flowers) and *T. Nitidus* (pink flowers) are both very good as ground cover.

Action: Astringent (stops fluid loss - urination, bleeding etc - by contracting cell walls), Antiseptic, Anti-spasmodic (relieves cramps), Carminative (see above), Expectorant (expels mucus from the respiratory tract).

Uses: Gargle with Thyme for tonsillitis, coughs, sore throats, mouth infections. Thyme tea is good for stomach or respiratory infections, indigestion, asthma and bronchitis. Use externally to cleanse and disinfect wounds. Thyme's astringent action means it is good for preventing diarrhoea and bed wetting.

Preparation: Pour 1 cup of boiling water onto 2 teaspoons of dried Thyme, stand for 10 minutes. Drink 3 times a day.

Description: A perennial low-growing plant with creeping habits. Flowers during Summer.

Harvesting: Cut sprigs of Thyme for drying before and during flowering - but apologise to the plant!

Propagation: Except for Common Thyme and Mother of Thyme (which can also be grown from seeds), all the other hybrid varieties (Lemon, Caraway etc.) must be produced by cuttings and root division (since almost all hybrids are sterile), or they will revert (in this case) to either Common Thyme or Mother of Thyme.

In the garden: Thyme prefers a chalky (ie alkaline to Neutral, pH 6 to 7) well drained soil in a Sunny position. Thyme flowers attract Bees.

Companion Plants: Plant near cabbage to repel cabbage root fly. Thyme is beneficial to most plants.

In the kitchen: Use Thyme in soups, sandwiches, salads, herb butter - in fact, almost anywhere.

by Brian Spears

Herbal Chemistry

by Colleen Woods

Dip. Med. Herbs. Member NHAA

Many essential oils have therapeutic effects and are found mostly in the glands within the tissues of plants or on the epidermis. They are not found in all plants, but the species *Umbelliferae*, *Compositae* and *Labiatae* are known to contain therapeutic amounts.

They are complex mixtures of small molecules which are volatile, especially in steam. They generally have a strong odour and are responsible for the flavours of many culinary herbs which are used to enhance the taste and aroma of food.

Some examples of culinary herbs used include: the fruits of the *Umbelliferae*, Dill, Caraway, Anise, Fennel and also the leaves of some species of *labiatae*, including the Mints and Thymes.

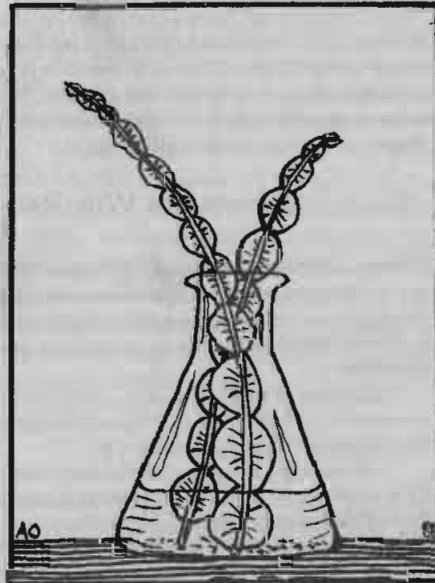
The therapeutic effect of essential oils is well documented and some examples include antiseptic, diuretic, expectorant and sedative actions. The antiseptic action of essential oils reduces the growth of bacteria without damaging the tissues. Thymol, the essential oil of Garden Thyme is used extensively for mouth ulcers and sore throats.

The essential oils of Sandalwood and Juniper berries are excreted via the urinary tract. Here they have a diuretic and antiseptic action and are useful in the treatment of urinary tract infections. The essential oils found in Thyme and Eucalyptus are eliminated via the lungs and are useful therapeutically as Expectorants and Antiseptics for treatment of certain types of coughs.

External use of certain essential oils stimulates the blood circulation and they are used in the preparation of liniments, e.g. Ginger, Rosemary, Mustard and Bergamot.

To make *Brassica Nigra*, a rub for neuralgia, take 5 mls Wintergreen, 5 mls Rosemary, 5 mls Cinnamon, 5 mls of Thyme and 80mls of oil. Dissolve and combine over a low heat.

The essential oils of Peppermint and Dill have a relaxant effect on the



smooth muscles of the Intestines, allowing the passage of wind. It is used frequently for the treatment of colic.

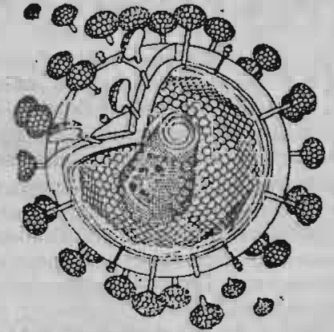
Excessive doses of essential oils via the lungs or digestive tract may affect the liver, causing swelling and pain, or they may effect the kidneys causing urine retention. As in all things, care must be taken as excessive use of essential oils can be damaging. When using them as medication, a Herbalist or Naturopath should be consulted for the correct dosage, as overdose of the oil can cause liver enlargement, urine retention or allergic symptoms like hives or eczema. Infusions are the safest, most effective form of home medication. Always put a cover on the infusion, because of the volatile nature of the oils.

Infusion/Inhalation For head colds & Flu

1 to 2 cloves of garlic, half teaspoon peppermint leaves, small pinch cayenne pepper. Honey and lemon can also be added. Infuse and drink when hot.

7 mls Eucalyptus oil, 3 mls Thyme oil, 2 mls Camphorated oil, 3 mls Peppermint oil (use essential oils). Combine in a small bottle. Use 2-3 drops in a bowl of hot water. Inhale the steam.

AIDS: The Real Story



As regular readers of ANY publication will know, a massive amount of information is printed about AIDS. NEXUS researchers have been sifting this mass for quite some time, and many anomalous features of the spread of AIDS came to our attention - so many that we were led to months of research in biomedical libraries to sort fact from fallacy and downright misinformation.

What we discovered has placed a whole new complexion on the nature of AIDS (Acquired Immuno-Deficiency Syndrome) and HIV (Human Immuno-deficiency Virus). We found so much, in fact, that it doesn't fit in NEXUS - so we've printed a NEXUS Supplement in our usual format to present the startling facts uncovered by other researchers and ourselves.

Called *AIDS - The Real Story*, it tells you all the facts - from the World Health Organization, Government Health departments and reputable scientific journals - which paint a very different picture of the spread of AIDS to that which we are normally shown.

Separated into easily-understood sections including *The Heterosexual Myth*, *The Virus Engineers* and *Aids in Africa*, fully referenced and rounded out with a clear Glossography, *AIDS - The Real Story* shows how media hype and scientific misinformation has helped cover up the probable source of AIDS and divert research from the most promising areas of exploration.

It also clearly illustrates why there's no need to panic, and how AIDS is *not* spreading heterosexually.

AIDS - The Real Story is a truly in-depth presentation of the facts behind AIDS, cancer research and presents an overview of what may yet be the tip of a biological iceberg.

If you have trouble finding copies in newsagents or health food stores, this supplement is available direct from NEXUS - see the back inside cover of this issue for details.

Trees: Guardians of the Earth

What I hope to show is the immense value of trees to the biosphere. We must deplore the rapacity of those who, for an ephemeral profit in dollars, would cut trees for newsprint, packaging, and other temporary uses. When we cut forests, we must pay for the end cost in drought, water loss, nutrient loss and salted soils. Such costs are not charged by uncaring or corrupted governments and deforestation has therefore impoverished whole nations.

The process continues with acid rain as a more modern problem, charged against the cost of electricity or motor vehicles, with the inevitable account building up so that no nation can pay, in the end, for rehabilitation. The capitalist, communist and developing worlds will all be equally brought down by forest loss.

Those barren political or religious ideologies which fail to care for forests carry their own destruction as lethal seeds within their fabric.

We should not be deceived by the propaganda that promises for every tree cut down, a tree planted. The exchange of a 50 gram seedling for a forest giant of 50-1,200 tonnes is like the offer of a mouse for an elephant. A young forest or tree doesn't behave like the same entity in age; it may be more or less frost hardy, wind fast, salt tolerant, drought resistant or shade tolerant at different ages and seasons.

I can never see the forest as an assemblage of plant and animal species, but rather as a single body with differing cells, organs and functions. A forest is not just a number of trees. A forest and its animals is a complex and interdependent organism.

At the crown of the forest and within its canopy, the vast energies of sunlight, wind and precipitation are being modified for life and growth. Trees not only build but conserve the soils, shielding them from the impact of raindrops and the wind and sun.

At the crown, forceful raindrops are broken up and scattered, often to mist, or coalesced into small bark-issued streams and so descend to earth robbed of the kinetic energy that destroys the soil mantle outside forests. Further impedance takes place on the forest's floor, where roots, litter, logs and leaves redirect, slow down and pool the water.

Like all living things, a tree has shed its weight many times over to earth and air, and has built much of the soil it stands in. Not only the crown, but also the roots die and shed their wastes to earth. The living tree stands in a zone of decomposition, much of it transferred, reborn, transported, or reincarnated into grasses, bacteria, fungus, insect life, birds and mammals.

The root fungi intercede with water, soil, and atmosphere to manufacture cell nutrients for the tree, while myriad insects carry out summer pruning, decompose the surplus

leaves and activate essential soil bacteria for the tree to use for nutrient flow. The rain of insect faeces may be crucial to forest and prairie health. It is a clever person indeed who can separate the total body of the tree into mineral, plant, animal detritus and life. This separation is for simple minds as its total entity, like ours, reaches out into all things.

HOW A TREE INTERACTS WITH RAIN

When rain falls on a forest, a complex process begins. First the tree canopy shelters and nullifies the impact of raindrops, reducing the rain to a thin mist below the canopy even in torrential showers.

However, if more rain falls, water commences to drift as mists or droplets to earth. This water is called throughfall.

As an average figure, the throughfall is 85% of rain in humid climates. At this point, throughfall contains many plant cells and nutrients and is a much richer brew than rainfall. Dissolved salts, organic content, dust and plant exudates are included in the throughfall. The random fall of rain is converted into well-directed flow patterns that serve the needs of growth in the forest. In the stem bases of palms, plantains and many epiphytes or the flanged roots of figs, water is held as ariel ponds, often rich in algae and mosquitoes. Stem mosses and epiphytes absorb many times their bulk of water, and the tree itself directs water via insloping branches and fissured bark to its tap roots, with spiders catching their share on webs and fungi soaking up what they need. Some trees trail weeping branches to direct throughfall to their fibrous peripheral roots.

With the aerial reservoirs filled, the throughfall now enters the humus layer of the forest, which can itself (like a great blotter) absorb 1 centimetre of rain for every centimetre of depth. In undisturbed rainforest, deep mosses may carpet the forest floor. For 40-60 cms depth, the throughfall is absorbed by the decomposers and living systems of the humus layer. Again, the composition of the water changes, picking up humic exudates, and water from the deep forests and bogs may take on a clear golden colour, rather like tea.

Below the humus lies the tree roots, each enclosed in fungal hyphae and the gels secreted by bacterial colonies. 30-40% of the tree itself lies in the soil; most of this extends over many acres, with thousands of kilometres of root hairs lying mat-like in the upper 60 cm of soil (only 10-12% of the root mass lies below this depth but the remaining roots penetrate as much as 40 metres into the rocks below). The root mat actively absorbs the solution that water has become, transporting it up the tree again to transpire to air.

If we imagine the visible (above-ground) forest as water (and all but about 5-10% of this

mass is water), and then imagine the water contained in soil humus and root material, the forests represent great lakes of actively-managed and actively recycled water.

Thus the soil becomes an impediment to water movement and the free (interstitial) water can take as long as 1 to 40 years to percolate through to streams. It almost seems as though the purpose of the forests is to give the soil time and the means to hold fresh water on land.

On bare soils and thinly-spaced or cultivated crops, the impact of droplets carries away soil and many rains typically remove 30 tons per acre, or up to 400 tons in extreme downpours. When we bare the soil we lose the earth.

WIND EFFECTS

Vogel (1981) notes that as wind speed increases, the tree sleeves and branches deform so that the tree steadily reduces its exposed leaf area. Vogel also notes that very heavy and rigid trees spread wide root mats, and may rely totally on their weight, withstanding considerable wind force with no more attachment than that necessary to prevent slide, while other trees insert gnarled roots deep in rock crevices and are literally anchored to the ground.

The forest bends and sways, each species with its own amplitude.

Apart from the moisture, the wind may carry heavy loads of ice, dust or sand. Stand trees (palms, pines and casuarinas) have tough stems or thick bark to withstand wind particle blast. Even tussock grasses slow the wind and cause dust loads to settle out. In the edges of forests and behind beaches, tree lines may accumulate a mound of driven particles just within their canopy. The forest removes very fine dusts and industrial aerosols from the airstream within a few hundred metres.

Forests provide a nutrient net of materials blown by wind, or gathered by birds that forage within its edges. Migrating salmon in rivers die in the headwaters after spawning and thousands of tons of fish remains are deposited by birds and other predators in the forests surrounding these rivers. In addition to these nutrient sources, trees actively mine the base rock and soil for minerals.

TREES & PRECIPITATION

Trees have helped to create both our soils and our atmosphere. The first by mechanical (root pressure) and chemical (humic acid) breakdown of rock, adding life processes as humus and myriad decomposers.

The second by gaseous exchange, establishing and maintaining an oxygenated atmosphere and an active water-vapour cycle essential to life.

The composition of the atmosphere is the result of reactive processes, and forests may be

doing about 80% of the work, with the rest due mainly to oceanic or aquatic exchange. Many cities, and most deforested areas such as Greece, no longer produce the oxygen they use.

The basic effects of trees on water vapour and windstreams are:

- Compression of streamlines, and induced turbulence in air flows.
- Condensation phenomena, especially at night.

Moisture will not condense unless it finds a surface to condense on. Leaves provide this surface, as well as contact cooling. Leaf surfaces are likely to be cooler than other objects at evening due to the evaporation from leaf stomata by day. As air is also rising over trees, some vertical lift cooling occurs, the two combining to condense moisture on the forest.

A single tree such as a giant Til (Oo tea foetens) may present 40 acres of laminate leaf surface to the sea air, and there can be 40 or so such trees per surface acre; trees enormously magnify the available condensation surface.

Who has not stood under a great tree which rains softly and continuously at night on a clear and cloudless evening? Some gardens, created in these conditions, quietly catch their own water while neighbours suffer drought.

The effects of condensation of trees can be quickly destroyed. Felling of the forests causes rivers to dry out and drought to grip the land. All this can occur within the lifetime of a person.

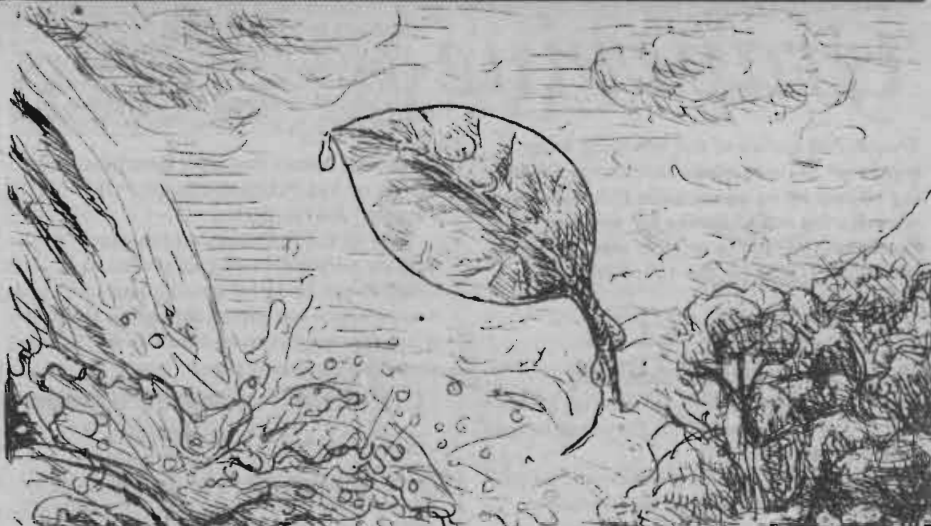
Windstreams flow across a forest. The streamlines are partially deflected over the forest (almost 60% of the air) and partly absorbed into the trees (about 40% of the air). Within 1,000 metres the air entering the forest, with its stonngages of water and dust, is brought to a standstill. The forest has swallowed these great energies, and the result is an almost imperceptible warming of the air within the forest, a general increased humidity in the trees (averaging 15-18% higher than the ambient air) and air in which no dust is detectable.

Under the forest canopy, negative ions produced by the life processes cause dust particles (++) to clump or adhere to each other and a fallout of dispersed dust results.

If dry hot air enters the forest, it is shaded, cooled and humidified. If cold humid air enters the forest, it is warmed, de-humidified and slowly released via the crown of the trees. We may see this warm humid air as misty spirals ascending from the forest. The trees modify extremes of heat and humidity to a life-enhancing and tolerable level.

The winds deflected over the forest cause compression in the streamlining of the wind, an effect extending to twenty times the tree height, so that a 12-metre (40 foot) high line of trees compresses the air to 240 metres (800 feet) above, creating more water vapour per unit volume and cooling the ascending air stream. Both conditions are conducive to rain.

These saturated airstreams condense in trees to create a copious soft condensation which, in such conditions, may far exceed the precipitation caused by rainfall. Condensation drip can be as high as 80-85% of total precipi-



tion on the upland slopes of islands or sea coasts, and eventually produces the dense rainforests of Tasmania, Chile, Hawaii, Washington-Oregon and Scandinavia. It produced the redwood forests of California and the giant laurel forests of the pre-conquest Canary islands (now an arid area due to almost complete deforestation by the Spanish).

RE-HUMIDIFYING AIRSTREAMS

Forests are cloud-makers both from water evaporated from the leaves by day and water transpired as part of life processes. A large evergreen tree such as Eucalyptus Globulus may pump out 800-1000 gallons of water a day, which is how Mussolini pumped out the Pontine Marshes of Italy. With sixty of these trees to the hectare thousands of gallons of water are returned to the air to become clouds.

A forest can return (unlike the sea) 75% of its water to air. In large enough amounts to form new rain clouds. (Bayard Webster, Forests Role in Weather ; documented in Amazon, New York Times Science Section 5/7/83). Forested areas return ten times as much moisture as bare ground, and twice as much as grasslands.

This is a crucial finding that adds even more data to the relationship between desertification and deforestation.

Of the 75% of water returned by trees to air, 25% is evaporated from leaf surfaces and 50% transpired. The remaining 25% of rainfall infiltrates the soil and eventually reaches the streams, or evaporates to air. Over the forests, twice as much rain falls than is available from the incoming air, so that the forest is constantly recycling water to air and rain, producing 50% of its own rain. (Webster, Ibid). These findings forever put an end to the fallacy that trees and weather are unrelated.

Design strategies are obvious and urgent - save all forest that remains and plant trees for increased condensation on the hills that face the sea.

All these factors are clear enough for any person to understand. To doubt the connection between forests and the water cycle is to doubt that milk flows from the breast of the mother,

which is the analogy given to water by tribal peoples. Trees were the hair of the earth which caught the mists and made the rivers flow. Such metaphors are clear allegorical guides to sensible conduct, and caused the Hawaiians (who had themselves brought about earlier environmental catastrophes) to Tabu forest cutting or even to make tracks on high slopes, and to place mountain trees in a sacred or protected category.

In summary, we do not need to accept Rainfall as having everything to do with total local precipitation, especially if we live within 30-100 miles of coasts (as much of the world does), and we do not need to accept that total precipitation cannot be changed. Let's be clear about how trees affect total precipitation. The case taken is where winds blow inland from an ocean or large lake:

- 1) The water in the air is evaporated from the surface of the sea or lake. It contains a few salt particles but is clean. A small proportion may fall as rain (15-20%), but most of this water is CONDENSED out of clear night air or fogs by the cool surfaces of leaves (80-85%). Of this condensate, 15% evaporates by day and 50% is transpired. The rest enters the groundwater. Thus, trees are responsible for more water in streams than the rainfall alone provides.
- 2) Of the rain that falls, 25% again re-evaporates from crown leaves and 50% is transpired. This moisture is added to clouds, which are now at least 50% tree water. These clouds travel on inland to rain again. Trees may double or multiply rainfall itself by this process, which can be repeated many times over extensive forested plains or foothills.

If we can only understand what a tree does for us, how beneficial it is to life on earth, we will (as many tribes have done) revere all trees as sisters and brothers.

I hope to show that the little we do know has this ultimate meaning: without trees, we cannot inhabit the Earth. Without trees we rapidly create deserts and drought, and the evidence for this is before our eyes. Without trees, the atmosphere will alter its composition, and life support systems will fail.

Reprinted from Nimbin News July 1988

Grapevine

Over 6,200 copies of the following letter were sent to news media worldwide (including Nexus) by an anonymous U.S. military organisation called Justice for Military Personnel (JMP). The original was mailed to the White House on the 4th of September 1987.

Request for an Executive Order

A letter from J.M.P. (Justice for Military Personnel) to President Reagan

Dear Mr President:

The CIA has made a mockery out of our constitution. Our elected representatives have no idea what we in the Military have done and are still doing, since the CIA decided that "they do not have a need to know". Thus, we in JMP request you, the President, to issue an Executive Order, making it mandatory for all of us in the Military and Government, both acting and retired, who have knowledge regarding UFO's to testify with total immunity before a special Congressional committee...

The UFO cover-up is not in our national security interest. It should be stopped, because it hurts military morale. Our group, Justice for Military Personnel (JMP), consists of retired military personnel who were affected by, or involved in different capacities with the UFO cover-up. Under orders of the CIA, in the "interest of national security," we took part in intentionally misleading the nation, manipulating the press, the courts and most politicians.

The CIA UFO cover-up is being perpetrated against the American people and not our potential enemies. The Russians have a whole town exclusively for UFO research. The CIA insists that the UFO cover-up must be kept at all costs, otherwise the military will be ineffective. The CIA correctly maintains that military personnel will disobey orders when confronted by UFOs. For example, during the Vietnam War, pilots refused orders to fly night missions against UFOs. Since fatal accidents, UFO related, are relatively rare (with the exception of the Vietnam War), the CIA prefers to maintain the cover-up.

NSA, NASA, CIA, RAND and AFOSI associates have informed us that UFOs have many origins. Some obviously represent civilizations thousands of years more advanced than we are. Almost everything about them, their motives and operations are strange and incomprehensible to us. There is little we can do to protect ourselves from them. The Air Force is totally helpless to handle the situation, because of UFOs' incredible flight performance. The CIA and Pentagon are bewildered by UFOs' apparent ability to jam all our ground and air electronic equipment, or instantaneously disable all our weapons control systems. The CIA has decided to try to understand and duplicate UFO propulsion systems at all

Letters to NEXUS should be addressed to: Grapevine, NEXUS New Times, P.O. Box A556, Sydney South 2000. Nom-de-plumes are accepted if writer is identified. If your letter is not for publication, please note the fact clearly.

costs. This means that pilot lives have been sacrificed in UFO chases to get "UFO samples" for research...

We in the JMP feel that too many military personnel suffered or died as a result of not being informed about UFO's. It is time to tell our armed forces the truth. It is unconscionable to continue to use military personnel as guinea pigs.

Crimes we committed under CIA pressure

Forty years ago, the cover-up was confined to a very few individuals within the Military and Government. Today, many thousands are affected or involved. This deceitful CIA policy is breeding resentment in the services, for we were ordered to act illegally against our fellow military personnel and our nation. Our JMP group has many military personnel and others who are waiting to testify. The following are a few examples of deceptive activities we carried out on active duty:

1. We intentionally ordered pilots to shoot at UFOs, with the hope of acquiring a UFO for research purposes. These resulted sometimes in instant explosions and death to the pilots or instantaneous "disappearances" of pilot and plane. The UFOs' occupants seem to be monitoring all of our pilot's actions. We analysed hundreds of UFO gun camera films and it seems that some UFOs are remote controlled.
2. We have strictly silenced military pilots who reported UFOs. We do not allow our pilots to discuss UFO chases even among themselves.
3. We interrogated, intimidated and harassed military personnel who saw UFOs, to "convince" them (excluding pilots and astronauts) that they "did not see" what they saw; frightened them with the prospect of long prison sentences if they told anyone what they saw; transferred them alone to bases around the world, where, even if they were to talk, nobody would believe them; forced some of them into mental institutions; jailed them; destroyed their military careers; did everything possible to intimidate UFO witnesses by fear into self doubt and silence.
4. We distributed fraudulent information through Military and Government spokesmen or scientists, to debunk all public UFO sightings.
5. We forced the FAA, NASA and other Government agencies to conform to CIA UFO policies.
6. We violated the freedom of Information Act by hiding documents.
7. We smeared commercial pilots who publicly reported UFOs and forced their companies to silence them.
8. We did not confirm when civilian planes around the world also temporarily lost control or completely disappeared when UFOs were present.
9. We slandered ruthlessly some of our most outstanding and competent citizens, who dared to report UFO sightings, while we knew

all along that they were telling the truth... 10. We silenced Congressmen and Senators who requested UFO information for their constituents. These representatives are now silent partners to this cover-up...

The national UFO debunking campaign ordered by the CIA in 1953 published books and planted hundreds of articles in the press to create an atmosphere of ridicule around the subject of UFOs, falsely creating "UFO contacts" and "UFO" hoaxes. This campaign which is still in effect today, infiltrated major civilian UFO groups to ridicule them or divert their efforts towards "other explanations"...

The press... did not question why the CIA refused to give UFO information to the then Senator Barry Goldwater who at the time was chairman of the Senate Intelligence Committee. If Senator Goldwater (who has been aware of the cover-up), does not have a high enough security clearance to get UFO information, then who in the Government does? The press failed to ask, if UFOs "do not exist," why did the CIA tell Senator Goldwater that UFO data is classified "above top secret" and "above any other secret in the USA."...

One of the most audaciously deceptive acts by the CIA involved President Carter (who himself had sighted a UFO), when he requested NASA to look into the possibility of UFO research. Until that moment, all of us who were involved with the UFO cover-up assumed that the President was informed by the CIA about UFOs the moment he entered office and that he was aware of the huge sum of money invested in UFO research since 1953. Until that moment, it was inconceivable to us that the President of the United States would be kept totally uninformed by the CIA.

At that time, NASA's scientific team concluded that the UFO cover-up should end because the public already knew that most astronauts in space photographed UFOs or had been followed by UFOs, and that the astronauts were forced by regulations to lie to the press. Shortly before NASA's release of the news to the press, the CIA insisted on continuing to maintain the cover-up and pressured NASA to lie to the public... Victor Marchetti (former Executive Assistant to the Deputy Director of the CIA), openly maintains that President Carter probably was forced to participate in the CIA's UFO cover-up....

This manipulation of American public opinion and the advanced mind control techniques employed by the CIA, were described by one Air Force doctor as: "Psychiatric Fascism contradictory to any democratic principles."

Now more than ever, due to our highly sophisticated detection systems, UFOs are being detected frequently over our bases and missile silos and they have tampered with our nuclear missiles. They are being photographed in restricted areas, monitoring our military experiments. We track them visually and/or on radar across the USA and Canada almost daily. Worldwide intelligence

reports indicate very similar sightings. Many of us objected long ago to this senseless UFO cover-up, because it led to a monumental loss of scientific data. But we could not do anything, because the CIA controls all our military intelligence agencies and has overwhelming influence over many Government agencies...

When our country requests us in the military to give up our lives for this land, the least the Government can do is tell us against whom we are fighting and why. We have the right to know... JMP members therefore have prepared a program that may effectively disintegrate the UFO cover-up....

This insane CIA's UFO cover-up must end. It is a "Time-Bomb" which can't be disarmed. This 'Time-Bomb', according to RAND, is gaining momentum and must explode one day. Let us expose it now and help save additional unnecessary loss of military lives.

This letter intentionally omits the most spectacular events in the UFO cover-up. Members of JMP feel that it will be more appropriate that the President himself, once informed by the CIA, will disclose these events to the nation. We regret the anonymity of this letter, but we have no other choice because the CIA has a clear policy of eliminating any insiders who may expose the UFO cover-up. As soon as the Executive Order is issued, we will be the first to testify. Please reply via the 'MUFON UFO Journal'.

Mr President, you have a unique opportunity in the history of mankind. With the interest of national security and unity in our hearts, we respectfully wait for your actions.

J.M.P., San Antonio, Texas.

Naturally, NEXUS called MUFON in Texas to check. MUFON have never heard of JMP. A spokesperson said that the substance of the letter is common knowledge but they are ignoring it as it remains anonymous and unverified.

Anti-CFC Campaign

Dear Nexus,

My name is Kylie McBride. I am a 15 year old student of Woolgoolga High School, currently studying Year 11. I write for my school paper as an "environmental journalist" of sorts.

After reading R.Ayana's article "People in Glasshouses" (issue 3) I decided that my next article could be based on the information given. Following your copyright instructions I quoted your magazine as a source.

I have recently become aware of Tasmania's decision to ban the sale, use and production of aerosols using CFCs. BRAVO! These and many other events have contributed to the increasing awareness of the problems caused by CFC's.

We are organizing a petition in the Coffs Harbour area asking that this ban be made nationwide. You will realise the massive organisational problems we are facing, I was hoping that you might send us any relevant information, advice, contacts or ideas that you had on this matter.

Let us hope our politicians have the courage to see our world as an environment and not

merely a money making machine.

Yours faithfully

Kylie McBride

Anyone who is interested in linking up with Kylie & others, please write c/a NEXUS.

Government Kibbutz Reply

Dear Sirs,

The letter 'Government Kibbutz' in Issue 4 was publicity, but of the adverse kind. Apparently someone wrote to you and used the article for their own sense of failure.

The Government has taken a chance and made it easy for people to stay here, \$15 a week site rent. They have provided money to buy materials to update the existing facilities, such as house, shed, tanks, roads etc. The community at large carries out these projects according to its needs at the time. The physical needs are met in this way until enough people are here to form a co-operative (28 members), then money is available for new structures such as roads, dam, hall, sheds, houses etc.

The main criteria at this point is trial membership. Our main motive for this letter is the hope that *Nexus* could inform its readers about the pilot project in a better light as we feel it is important in terms of housing, community involvement, becoming more self sufficient, self employed etc.

We are living here because we believe this is a valuable and unique opportunity and we would welcome the remaining number of members needed so we can move ahead with the full development of this exciting project.

Tyamokari Community, Lot 2, Stoney Chute Rd, Wadeville 2480

Mount Oak Clarified

Dear Editors,

I would like the opportunity to correct some of the misunderstandings in your anonymous REVIEW OF MOUNT OAK (Autumn 1988)

1. *Mount Oak Is Not Yet "Free"*. The title of the land is still held by Jim Cairns, who, despite his original promises when the money was collected and numerous requests since, has NOT transferred the ownership of the property to a trust.

2. The confest HAS attracted new settlers...

3. The original festival site was left as a devastated dust-bowl. It has been successfully rehabilitated, with flourishing gardens, livestock and huge amounts of planting to prevent soil erosion. As a regular visitor I am always shocked by how slowly the vegetation grows. It is high altitude, rain-shadow country and very fragile...

4. There was opportunity to visit the settlement. It was not appropriate to invite 1,500 people to wander at will through an area where for the last ten years people have made a home. Many people availed themselves of the opportunities to inspect the work carried out. Those with eyes and understanding of the harshness of this alternative existence were inspired and supportive. Even so there was still deliberate vandalism.

5. Yes, there were no showers and the river was a pleasant ten minute walk along the

beautiful creek bed. Yes, enterprising campers did organize transport and built a sauna. Good on them. The basic infrastructure of water, toilets, washing, fuel and shade were provided. It would be necessary to have participated in this work to appreciate the magnitude of the undertaking.

6. Yes, people did actually have to walk, there was a camping area provided for people who wanted to keep their vehicle by their bedside. A shuttle service was provided to transport gear, even so some still drove off the tracks, destroying the all too sparse regrowth.

7. Mount Oak is a very special place - one we have fought to retain in the face of physical standover tactics, court battles and broken promises. It is harsh. It emphasizes self-reliance and simplicity of life-style, one that will enable the planet and its peoples to survive into the 21st century. Thank-you, Mount Oak residents and friends for providing such a well-planned site, free from police interference and disruption by drunks. Those with appreciation of the political realities of the situation had a good time. Those passive consumers who expected a hippie holiday camp need to reflect on their expectations.

8. Visitors (but not pets) are welcome.

Peace, love and rainbows,

Bren Davies, Interim Trustee.

PO Box 6 Cooma, NSW 2630 (064)

544167.

To support the legal battle for this land send donations to CTB Account No. 46922 Branch 2523 Cooma 2630

Japanese Greetings

To the staff of Nexus,

Greetings from Japan! It gives me great pleasure in sending you our newsletter concerning the gathering "In Celebration of Life", that will be held in August of this year. Even though we are separated by borders we all live on Gaia, and that's a very wonderful thing! We are working hard to try and bring this celebration about and the people who live in the mountains are joining hands with those who live in the big cities. And we would like to share this wonderful feeling with many of the people living on this little planet, our earth and home, GAIA.

We hope to also have representatives of different tribes with us, to share in their wealth of knowledge and insight. We are expecting the Ainu, Ryukyu and Hopi Indians to join us, and were also hoping for representatives from Australian tribes. Unfortunately this has been given a question mark due to finances, but we still would like to be able to contact Aborigines who may be interested in what we are doing, if not this year, then next year.

There is a "Run for Land and Life" where 20 American Indians will come to Japan, and they'll probably start from August 6th at Hiroshima (memorial day) to run 3,000 kms, visiting many reactors on their way up to Hokkaido. As more definite plans are made, I'll send information if you would like.

Walking in Peace Jayne Velda, Peace Gathering '88 13-1 Kawahara cho, Shimizu Shi, Shizuoka Ken, Japan 424



Supplement No 1

This issue we present a Gemstone File supplement of recent mainstream updates which cast light on this many-faceted document.

Kennedy & Giancana

In February this year, Judith Campbell Exner claimed in an interview with a US magazine that she was a courier and contact between President John F. Kennedy and a Chicago mobster.

Exner claims to have arranged at least ten meetings between Kennedy and Mafia boss Sam Giancana in the early 1960s. She split a US People magazine fee of \$US100,000 with the article's author, Kitty Kelley.

Exner admitted in a 1975 appearance before the Senate intelligence committee that she had an 18-month affair with Kennedy before and after he entered the White House, and an earlier affair with Giancana.

"Now that I'm dying and nothing more can happen to me, I want to be completely honest," she says. "I don't think I should have to die with the secret of what I did for Jack Kennedy, or what he did with the power of his presidency." Suffering from cancer, she says Kennedy used Mob money and muscle to secure his election victory.

"I lied when I said President Kennedy was unaware of my friendships with mobsters," Exner said, referring to her 1975 testimony and a book she wrote in 1977 called *My Story*. "In fact, I've gone to great lengths to keep the truth from ever coming out, which is probably the only reason I'm alive today. (But) he knew about my dealings... because I was seeing them for him."

For 18 months around the 1960 election (which Kennedy won by a very small margin), Exner was Kennedy's conduit to the Mafia - particularly Chicago boss Sam Giancana. She regularly carried messages and set up private meetings between them - at least one in the White House.

Sinatra Connection

Exner's father was a wealthy California architect. By 1959 she was on the Hollywood party circuit and was briefly Frank Sinatra's girlfriend. Early in 1960, Sinatra invited her to his show in Las Vegas at the Sands Hotel, where he introduced her to his friend, Senator John Kennedy. Exner says Kennedy called her every day for the next month and set up a rendezvous in a New York hotel. "It was a wonderful night of lovemaking," she said.

A week later, Sinatra called to invite her down to a Miami show, where he introduced her to his friend Giancana.

"I feel like I was set up to be a courier," she said. "I was a perfect choice because I could come and go without notice and, if noticed, no-one would've believed it anyway."

"I never told anyone else because I thought I would be killed," she said. "Look at what happened to Jack and Sam, who was murdered in his house while under police surveillance." Giancana was killed in 1975, the night before his scheduled appearance before a Senate Intelligence committee.

First Assignment

In April 1960, Exner met Kennedy in his Washington apartment for dinner and lovemaking while pregnant Jackie was in Florida. "Jack turned to me and said, 'Could you quietly arrange a meeting with Sam for me? I think I may need his help in the campaign.'"

Six days later, Kennedy and Giancana met at the same Miami hotel. Kennedy handed Exner an envelope containing two \$1000 bills later that night.

"He seemed very happy about it and thanked me for making the arrangements," she said. "Jack told me if he didn't get the nomination in July, he and his wife would get a divorce. Their marriage was unhappy and the divorce was a mutual decision between them."

That first meeting concerned the West Virginia primary. FBI wiretaps revealed that huge donations from Mafia figures poured into Kennedy coffers to pay off election officials - and Sinatra apparently helped distribute the money.

Kennedy won the primary with over 60% of the vote, but still needed a victory in Illinois, Giancana's home State; more meetings followed. After the election Giancana boasted to Exner that Kennedy would never have won if not for the Mob.

"I thought I was in love with Jack," she said. "He trusted me and I was doing something important for him. I was 26 years old and didn't have any great purpose in life. That's probably why I became so involved in this and did it with such gusto. I guess I felt I was doing something important."

Throughout 1961, and especially after the Bay of Pigs, she claims she was an unwitting participant in the failed assassination plans against Castro. Then she realised she was being followed by the FBI.

"They hounded me about Sam and I was terrified," she said. "I called Jack immediately to tell him the FBI had been to see me, asking all sorts of questions about Sam. I told him I had said I knew nothing about Sam's business. Jack reassured me.

"He said, 'Don't worry, they won't do anything to you. And don't worry about Sam. You know he works for us.' He told me that over and over."

Parts of Exner's story were questioned by Giancana's daughter, Antoinette, in a TV interview on CBS This Morning in late February. Ms Giancana said she had never met Exner but admitted she was her father's girlfriend and that her father had wanted to help in an assassination plot against Dr Fidel Castro. But Antoinette, 52, denied Exner was a messenger for the President and her father.

"First of all, the mob never put anything in writing," she said. "And my father resented the Kennedys immensely. He used very choice words for the Kennedy family when their name came up."

Exner remains adamant, and says she was the conduit which made written deals unnecessary.

Contract On America

A newly released book draws the connections between Kennedy and the Mob still tighter. *Contract On America*, the culmination of a 10 year investigation by David Scheim, is a detailed account of the events leading up to and immediately following the JFK assassination.

"Gracing the tableau are neither crackpots nor clowns, freak coincidences nor senseless crimes," writes Scheim. "Rather, coming sharply into focus is the vicious combine of killers... a group with the motive and capability to perform the assassination. Indeed, the conclusion is clear. The Mafia killed President Kennedy."

Scheim says Kennedy angered organised crime when he stopped official attempts to overthrow Castro and recover millions in Mob gambling money lost in the Cuban revolution. Bobby Kennedy also declared a 'war on crime' as Attorney-General. Official files detailed by Scheim show that Teamster Union president Jimmy Hoffa, Florida crime boss Sam Trafficante and head of America's oldest Mafia family, Carlos Marcello - who controlled an empire stretching from New Orleans to Texas - made direct statements that "their problems with the Kennedy Administration would be solved by an assassination."

Lee Harvey Oswald's family had mob connections and he was bailed out of jail in New Orleans by Marcello's top aide three months before the November 22nd assassination. Scheim states that Oswald took part in the conspiracy, but that two other men - David Ferrie and Eugene Hale Brading - also took part (see *Gemstone File*).

Ferrie knew Oswald since the 1950s and also had Mafia ties; he was seen with Oswald in New Orleans a month after his release from jail. He also gave a dubious alibi for the time of the JFK murder.

Brading was found in the nearby Dal-Tex building (from which one bullet originated according to witnesses and ballistics evidence) after the shooting. He was arrested for being present "without good

cause" and inexplicably released without fingerprinting or follow-up investigation. It wasn't until 1969, after he was *also* questioned by Los Angeles police after the Bobby Kennedy assassination that it was learned Brading was a Mob associate with a record of 35 arrests.

Two acoustics experts (and many witnesses) have testified that a third shot originated on the grassy knoll bordering Elm St with "95% or better" probability. An enhanced photograph shows a gunman poised in bushes there with a rifle. Dallas policeman Joe Smith later testified that he spoke with a man standing behind a picket fence near the knoll, who produced a secret service badge. Records show that no secret service agent was stationed there.

Ruby's True Colours

Jack Ruby, Oswald's killer, had been a Mafia soldier in Dallas for over 25 years; the investigating Warren Commission deleted this fact from its official verdict. They never revealed that Ruby's telephone records immediately prior to the assassination showed many calls to Mob officials and go-betweens, but suggested he killed Oswald because of shocked patriotism - and an infatuation with Jackie Kennedy. On the morning of November 22nd, Mary Lawrence, a bar waitress, saw Ruby talking to a younger man who looked like Oswald. "If you don't want to die, you better get out of town," a phone call informed her two days before an FBI interview after the assassination.

Ruby was at the Dallas police station every day after the Kennedy assassination, handing out cards to his Carousel Club to reporters. He was the Mafia pay-off man to Dallas police and had hundreds of connections within the force. Government wiretaps show that one of these, Dallas County Sheriff Bill Decker, was on the take and knew Ruby well. Decker rode in the "rolling command car" as part of the presidential motorcade and was involved in the 'unsuccessful transfer' of Oswald from the Dallas police jail where Ruby shot Oswald.

According to Scheim, Ruby owed the Mob a favour and believed he'd get off lightly for murdering Oswald. Four weeks after being sentenced to death on March 14th, 1964, Ruby asked to see the Warren Commission. Inexplicably, they declined at first - but during his subsequent testimonies (reported in NEXUS No 3) to commission members he said there was a conspiracy behind the killings.

"I want to tell the truth and I can't tell it here," he said. "Does that make sense to you? My life is in danger here." Sheriff Bill Decker supervised Ruby's incarceration.

According to Scheim, J. Edgar Hoover (head of the FBI and, some say, most powerful man in North America) had known ties to New York mobster Frank Costello and "an atrocious record" on organised crime. He ensured that Oswald was labeled a 'lone killer'. Scheim says that Vice-President Johnson also had strong mob connections and accepted pay-offs for curbing investigations into organised crime.

"In conclusion, the Kennedy assassination cover-up fits the pattern that Roman historian Tacitus had characterised 19 centuries ago on the murder of Emperor Galba: 'a shocking crime' committed 'on the unscrupulous initiative of a few individuals, amid the passive acquiescence of all'," writes Scheim.

As a result, Kennedy's 'war on crime' - and proposed withdrawal from Vietnam and defence cuts - were stopped.

"Perhaps the most disturbing benefit the Mob derived has been unprecedented (and continuing) influence at the highest levels of Government," Scheim concludes.

- R.A.

The Gemstone File will continue next issue. - for more information see issues 1-5.

Facts from 'Contract On America' & AP 25-2-88 & 5-3-88

Nexus Editorial

Yes, There Is A Tomorrow

Theories propounded by the 'alternative' press over the last two decades are now widely expressed in mainstream media. Such issues as ozone depletion, greenhouse effect, rainforest preservation, wholistic health, vegetarianism and nuclear power - once the province of "the crackpot lunatic fringe" - have entered the consciousness of everyone plugged into the modern world.

The wholistic changes taking place, piecemeal as they may seem, are largely invisible to those living inside the cultures they mould. In 1988, wheatgrass and sprouts are hot sellers in suburban supermarkets; alternative therapies are undermining the power of the medical establishment; the superpowers are disarming and a one world economic system and government are rapidly taking form; conservation and environmental groups in Australia have 800,000 members while the Australian Labor Party has only 40,000; coal-fired and nuclear power are winding right down while solar, tide, wind and wave-power are taking off in a commercial way; if you could have known in 1980 that all these things (and many more) would come to pass in only eight years, chances are you would have breathed a sigh of relief. Well, you can breathe one now.

Many positive changes are transforming the plan-net; the media maelstrom, which concentrates on polarities and 'newsworthy' confrontation, manages to mask scientific breakthroughs and challenges to our beliefs not by censoring them, but by burying them in sports, soaps, sex, petty politics and advertising. One numb result of future shock.

For all these reasons and more, NEXUS doesn't call itself an "alternative" magazine - we're a NEW TIMES magazine. New Times don't consist of things which have already come to pass. There are a multitude of new horizons beyond the perspectives of the 1960s, '70s, and '80s which are science fiction and strange speculation today - but will soon be securely ensconced into tomorrow's worldview.

Most technological breakthroughs marketed today were actually developed over a decade ago; one of the major brakes on technological change are economic rationalizations rising from thoughtless throw-away consumerism.

It's the job of *all* media - not just the alternative press - to present people with alternatives and new possibilities.

There's a natural spectrum of human gullibility and skepticism which defines our culture's credibility horizon; in the post-nuclear electronic world we dwell in a living landscape of science fiction and fantasy come true, but we can still reason our way through the kaleidoscopic possibilities arrayed around us. NEXUS sifts through and cross-connects a literal mountain of facts, presenting what we believe to be some of the most interesting and revelatory.

The type of worldview we choose to live and believe - our present - creates the future by plucking it out of the myriad potentials of imagination, artifice and serendipity.

There are billions of us. We can do anything. Let's choose wisely.

- R.A.

IN ORBIT

with Victor Voets

The most inwardly straining period of the year has now finished. We can almost relax. Intensity and proliferation of ideas are still in abundance; search for emotional and financial independence will predominate until August 18th. Until then, it's a good time to get your own house in order - a bit of reflection, meditation, self-analysis is par for the course.

Financially things are a bit limiting as there never seems to be all that we materially wish. **Saturn** does an about face and turns direct in motion from August 30th and a lot of worries seem to lift, energies pick up, we all become more dependable and the urge for freedom and travel becomes dominant.

From August 27th drives and energies also seem to go through some blocks and delays - hindrances will occur until October 28th. These may be caused by male people (probably younger in nature), or a lack of iron bringing about lethargy in the fire of life.

Letting go of emotional restriction starts from August 18th. We begin a period of detachment from the personal for the sake of the impersonal. An interest in art, colour and emotional involvement with groups will appear. Until September 17th, we'll be trying to get bills and structural items tidied up so that we can have more freedom to realign our relationships.

Restrictions upon independently creative ideas create tensions and these seem to abate from September 5th as **Uranus** moves into direct motion. Vagueness and confusion to do with finances, business and health matters also clear up from September 19th as **Neptune** turns direct: less aimless escape into time-wasting pursuits.

Unions and similar groups will be more frequently heard from as they begin fighting for their rights after August 17th. Domestically it will be a very straining time from the **NEW MOON** on September 11th. There is much tension, due to many things needing repair or attention in the domestic sphere.

The general feeling from September 19th is wishing to forget problems and enjoy being part of humanity; freeing the emotions. The desire to develop communication skills through reading and writing rises from August 23rd. However, vagueness in direction and understanding occurs from September 25th as **Jupiter** moves into retrograde motion. Then comes a **FULL MOON** of independence on the 26th.

Mental clarity and communication disappear into a sea of confusion from September 29th when **Mercury** turns retrograde until the afternoon of October 20th. Read the fine print before you sign any contracts, watch the road while driving, telephone communications become frustrating; disagreements in transport and communication fields may see a few strikes. People, objects and memories from the past may prevent progress.

There will be an interest in old philosophies until October 23rd. During this time the desire to have more music or to be more artistic at home will also be in evidence. A need for independence emerges from October 18th; a greater interest in metaphysical or occult concerns starts from early afternoon of October 23rd. There may also be a lot more emotional strain as emotional power-plays come about - try not to lose sight of your individuality.

Sub-Paragraph

3

In the mid-'70s - after Vietnam, occupations at universities, sexual revolutions - when Australian people were achieving a worldly view, one person was proving to be a non-conformist negative mutation. The parents of this heretic named their baby Colin.

Colin didn't enjoy music, alternate lifestyles or anything "cool". Violence, alcohol and a weird, 'straight' lifestyle was enforced by a father who went to Hiroshima and Nagasaki with the Victorious Allied Armies, "cleaned up the fried meat", became an alcoholic, observed the Maralinga Atom Bomb tests (and conceived three children soon after), bashed his children, raped his daughters, emasculated his son and scarred his wife. They called his father "Bruce".

Colin saw the 'best minds of his generation search the morn for an angry fix'.

③

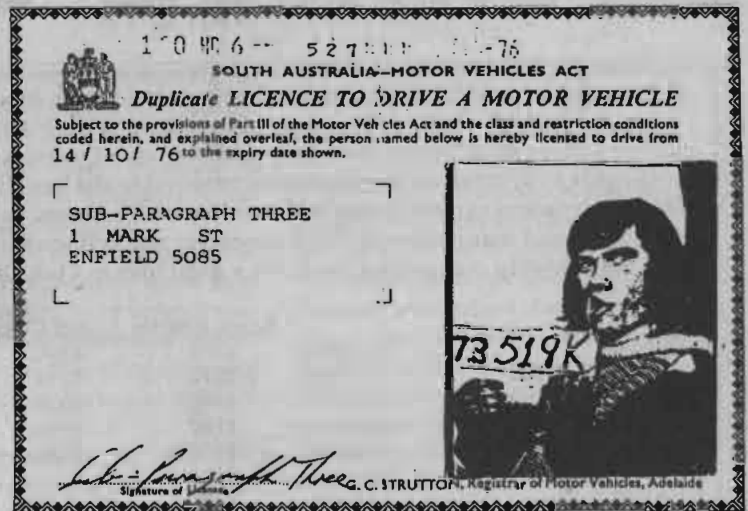
Then one day, soon after the outrage of the 11th of November 1975, I was drafted into what seemed the divine calling of my genetic strain (nicknamed the "Fish Family") - The Public Service. A brief Herring family history shows connections to ASIO, Customs, TAFE, weapons research and education. The Fish Family was completely plugged into the post-Whitlam Government System. Total computer cross-referencing of the Australian public service (and Australian public) began hand-in-glove with my induction into The Public Service. But before I could realise my purpose in life as the first human number, I had to become a Taxation clerk.

Assessing 'S forms' created rapid promotion to Recovery clerk - I could send wind-up notices and penalties parrot fashion over the phone and terrify the public with my voice. This confirmed my belief that taxation was a calling related to assassination. More could be said, but fear of the Secrecy Provisions Act - which gives me 2 to 7 years jail - prohibits further comment.

The internal handling of staff matters was ruthlessly enforced; there were spies on every floor. All matters syphoned their way to Gestapo Headquarters on the dread 17th floor. Each day memoranda would be sent ensuring we all had equal rights to do each other in. Then one day, I cracked when a 'section three' stated that "all officers are reminded that they are not to put their Coke cans or banana skins in the waste paper bins provided for they are for the paper shredding machine only." I went to Births Deaths and Marriages and formally changed my name to Sub-Paragraph Three. Having studied Living Theatre at university that year must have had something to do with it.

I was now a human counter-weight to a bureaucratic machine which expanded according to human failure.

Some of the public started to pay their tax debts laughing after dealing with Sub-Paragraph Three. Meanwhile, the giant arm of bureaucracy was preparing to bowl me out. More than once SP3 was called to the dreaded 17th floor. SP3 was cut off from public interviews, telephone and the written word. SP3 wouldn't make the mandatory probationary period.



One hot summer afternoon SP3 could take no more. People had become ants and the tax department had become the foot of the monster which had expanded over them - seemingly due, in a small way, to my own failure to comprehend the all-pervasive nature of taxation.

I had won some money in a staff raffle (winning number 33), and burned the cash in an ashtray seeking divine intervention. The entire floor stopped work as one pale-faced youth echoed the collective consciousness at that time;

"Don't do that! That's my God", he yelled. I resigned from the Taxation Department.

③

The Department was not prepared to leave it at that. SP3 was given a late Christmas present in the form of The Drug Squad. The magistrate said, "Sub-Paragraph Three, you are charged under the narcotic and psychotropic drugs act of 1934 as amended in 1967 - er - is this permissible?"

"Yes sir," I replied, "under section 24 of the Births, Deaths and Marriages Act, Sub-sections 1(a) & (b) and 2 & 3 (1), which state that I am legally obliged to demand that I be called 'Sub-Paragraph Three'." The court reporter fell off his chair and, after an interview which made world news, eventually became an editor.

Buzz Kennedy, writing for *The Australian*, observed that SP3 "is a genuine eccentric, not a poseur of the times." Some T.V. shows made a great joke of it and a U.S. radio station rang for an interview.

Colin Herring, a Taxation clerk, was the first person in the world to voluntarily become a number, and a sub-paragraph at that. The exercise was more than an experiment in living theatre; it was a symbolic embodiment of the times and a legend in the lunchtime of Australian culture.

③

This Taxation clerk's prank foreshadowed today's tax-file numbering identity system which, with bank cards and EFTPOS, connect all Australians into the world computer identity net and new economic order. But Colin survived it all.



Balanced Birth

Birth is an event that takes place tens of thousands of times every day all over the world. Yet many whys, dos and don'ts regarding how and when women should give birth confront the modern mother (and father) to be.

Nature vs Medicine

We are told to largely ignore nature and put our own and our babies' lives in the capable hands of doctors and hospitals, making use of all the drugs available to ease the passage of birth. Even in 1988, women desiring to have their babies in the tranquillity of an environment of their own choosing are looked upon as irresponsible.

We seem to forget that from the beginning of time, women around the world have been having their babies at home, in the snow, in rice fields, in caves, huts and shacks. Advances in medicine and education have changed many women's outlooks, programming them with a fear of the birth process and instilling them with a dependence on the hospital system; ultimately convincing them that hospitals are the only place a responsible, caring person would dream of having their baby.

After all, they offer epidurals, pethadine, gas and caesarians. There are tubes and needles, humidicribs and monitors - all the paraphernalia necessary to see you and your baby through this event. And if you are a Medicare patient, it's likely you won't have met any of the staff you will be sharing this magical moment with.

A Helping Hand?

Of course, there are situations in the birth process where lives *do* depend on the expertise of hospital staff and their equipment. But how many cases of unnecessary medical intervention occur?

The first official report on NSW birth statistics, released in May this year, showed that doctors intervened/interfered in almost half of all births in N.S.W. hospitals. Only 54% of mothers went into labour of their own accord; doctors 'broke the waters' in 21% of all births. Labour was speeded by drugs in 17% of births, and 7% of women didn't go into natural labour at all before doctors intervened. The percentage of forcep and caesarian deliveries var-

ied across the State. The percentages for caesarians are as high as 33% in one large Sydney hospital (Sutherland) and forceps are used in 28% of births in another (St George).

Australia has the second highest rate of caesarian deliveries in the world, exceeded only by the United States. The NSW State average is 15%, but there has been a 350% increase in Australian caesarian deliveries since 1970.

"Throughout the State there is a recognition that the whole process of birth has become too technical," reported Professor Rodney Shearman, head of obstetrics and gynaecology at Sydney University.



Homebirth Is Safe

In 1987 there was a total of 1,162 babies born at home in Australia (including 5 sets of twins), with 133 registered and lay midwives (and 22 doctors) in attendance. There were only 2 foetal deaths *prior* to birth and 5 neonatal deaths in the first 28 days *after* birth - a total of less than 1%. Only one of these was during labour (in transfer to hospital). There were no maternal deaths.

Furthermore, 71 of these Australian home births (6.1% of the planned total), including one set of twins, were underwater births! The only death in these births was an anencephalic baby and was unrelated to the method of birth.

Having your baby at home is natural, loving and as responsible as any other choice. From the time a woman knows she's pregnant she sees her midwife on a

regular basis. The midwife comes to your home and becomes your friend, whose visits you look forward to. A special relationship develops between the midwife, yourself and your family - she becomes part of the family for the months you spend together.

You, not doctors or administrators, are in control of how you have your baby. You can decide the way you feel most comfortable in delivery - you can have music and candlelight if you wish. Supporting friends are encouraged to be with you, as are any children in the family. The new soul is eased into the world with love and care - *but most of all responsibility*. After all, women choosing to have their babies at home must also choose to take full responsibility from the start of pregnancy. They must be healthy in body and mind, educated about how their bodies work and be fully informed on the whole process of pregnancy and birth if they wish to have a homebirth responsibly.

Nature Does Know

Do we really need to interfere so much with something women are designed for? The hospital system doesn't need to alienate mothers by treating them as bed-space and statistics rather than people facing one of the most amazing experiences in their lives. But today it is heavily over-stressed and has little time for the individual mother.

We are now manipulating the whole process of human life from conception. Where is this leading us? Will natural birth at home become a rarity rather than the norm, as it is in many cities? Or are more women taking control once more and making a stand to accept responsibility for their children from conception, rather than when the nurse gives them their baby at the car for the journey home?

More babies are being born at home in safety each year in Australia, brought into a loving world in a joyful way. Were you born at home?

- Nissa





Mars Sale

A U.S. TV writer has registered a legal claim to the planet Mars.

Richard Griffing, of Mesa, Arizona, is planning the biggest resort development scheme of the 21st century called "Mars - a Planned Community". It will include an \$80 million hockey arena and greyhound race park. The development of the resort-city, called Ralphsburg, will start in the year 2024 near the Martian equator.

He has banned mobile homes because of the 600km an hour surface winds. There will be no restrictions on race, creed or religion, but for some undisclosed reason, he has banned TV evangelists.

Griffing has an official document - signed and numbered - from the Maricopa County Registrars Office in Arizona to prove his title.

He says he has already sold almost 100 square kilometres of land at Ralphsburg. "If the deed is disputed there will be no refunds," he added.

The entrepreneur-philosopher declared, "No Earth government can own land. A constitution will govern the laws of the planet."

The Martian constitutional convention will probably take place some time in 1992.

Swords into Ploughshares

A meeting of the Supreme Soviet in Moscow announced that the Soviet factories where the scrapped SS-20 Medium range missiles were built would be stripped of their military purpose. From now on these plants will manufacture baby carriages, bicycles, washing machines and refrigerators, according to the Soviets.

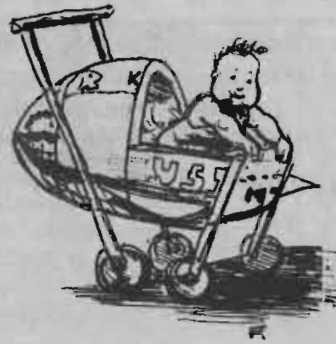


You Take the High Road

A Scottish university team has unearthed evidence from the bottom of a lake showing that the Scots grew cannabis 700 years ago.

Cannabis pollen was found under the peat bed of Loch Kilconquhar in Eastern Scotland, dated to the 12th and 13th centuries.

Dr Graeme Whittington, a geography lecturer, said he did not know what the plants were used for in ancient Scotland.



Blessed Are The Cheesemakers

The town of Jarle, which is about 200 kilometres west of Stockholm, has used a little-known statute to declare war on France in protest against nuclear testing in the Pacific.

The Swedish statute, promulgated in 1642, allows towns to make unilateral declarations of war against any nation.

The Mayor Jarle, Mr Elof Elinder, is a staunch anti-nuclear campaigner. He urges all Swedes to boycott French goods, especially wine and cheese.

The Twilite Zone urges all Australasians to do likewise.

Toilet-Computer Interfaces

The Japanese are leading the world in medical technology with the invention of the computerized toilet.

The invention, called "intelligent toilet first-thing-in-the-morning," provides sitters with a computer readout of their heart rate, blood pressure and temperature. The intelligent toilet can also do a urine analysis and transmit the data to doctors with compatible computers.

Anonymity

Halima Badkuf, 70, of the seaside village of Tizgirt in Algeria, was refused a war veteran widow's pension because photographers were unable to get a picture of her.

Algeria's official news agency APS reported that in all attempts to photograph her, including group pictures, the space she occupies is always replaced by a dark mist.

Sorry we can't bring you a picture.



Voting With Their Feet

The Prime Minister of Canada, Mr Clark, arrived by hovercraft at the Canadian Open Sandcastle Competition but he proved to be too popular.

As soon as he stepped off the hovercraft, the crowd surged forward, trampling most of the exhibits in the rush. One of the finest sand models destroyed was that of the Canadian parliament buildings, which had taken 27 hours to build.

Alderman Joan Warbridge, chairperson of the competition, had to award the first prize to the man who built a model of the White Rock lunatic asylum.

Solar Bees

The US Department of Agriculture, concerned about an invasion of killer bees over the Texas border sometime next year, has commissioned Martin Marietta, the makers of the MX missile, to fit the bees with miniature tracking computer chips.

The tiny chips, powered by nine solar cells, are no bigger than a grain of salt.

The most difficult part for Martin Marietta was holding the bee still while the chip was glued to its belly in precisely the right position.

The chips will transmit infra-red signals that can be picked up by a ground station over a kilometre away.

The Dept of Agriculture hopes that by tracking thousands of killer bees they may discover a way to control them without using pesticides.



NERVOUS DISORDER

A pain-crazed patient went berserk when London dentist Ian Galliford touched a raw nerve. Tom Pickering, 38, leapt from the chair, punched the dentist and attacked his partner and receptionist, finally stabbing Mr Galliford with a screwdriver. When police arrived Pickering knocked out a constable and officers had to use truncheons to subdue him.

Mr Pickering, a former complaints officer with Norfolk County Council, was taken to a mental hospital and detained under the Mental Health Act.



Severed Heads 1

American neurosurgeon Dr Robert White, who transplanted a monkey's head onto another body in 1971, is now suggesting the transplantation of human brains.

"According to my beliefs, the being is contained in the brain. The spirit is in the cortex, with memory, thoughts, feelings, intellectual capacities, sentiments, personality, faith. A cephalic transplant would be, to my way of thinking, the transfer and the survival of consciousness."

Dr White works at the Case Western Reserve University School of Medicine in Cleveland, Ohio. Dr White is a practising Catholic who believes that brain transplants enable the soul to be grafted. His latest research involves cooling the brain.

Meanwhile, 35-year-old St Louis attorney Chat Fleming has acquired a patent which describes a machine to keep severed animal and human heads alive. He did so to prevent anyone from building the machine without full public debate.

Dr Jerry Silver, a co-worker with Dr White and expert in regrowing severed nerves, said; "I think it is fairly barbaric at this point. I do not even see that 100 years from now it is a possibility. If anybody did that today, it would be absolutely horrible. Can you imagine looking around the room, and you're just a head?"

The longest surviving Case Western head transplant monkey lived only 36 hours.

Severed Heads 2

Riverside County Coroner's Court has ruled that the death of an 83-year-old woman, whose head was preserved by a cryonics lab, was homicide.

The Alcor Life Extension Foundation acknowledged it had injected a barbiturate into her body and had then severed and frozen her head, in the hope that science would one day be able to reanimate her with a new body.

WAITING ON THE BLESSED VIRGIN



Blinding Visions

Eye doctors in Pescara, Italy treated nearly 250 locals for eye lesions or damaged corneas after an expected sign in the sky failed to appear.

More than 20,000 people converged on a hill just outside Pescara in March to look at the Sun after a woman said the Virgin Mary told her a miracle would appear near the Sun around noon.

Some said they saw the Sun vibrate and turn green.

Self-Destruct Video Company

The Polaroid Corporation in America has applied for a patent on a videotape which is designed to self-destruct after a number of viewings. Polaroid claims this inferior self-destruct videotape will bring videotape prices down.

Albert Conti, manager of Polaroid's New Business Development Group, told *Variety* magazine that the new tape would mean video stores could stock more copies of popular titles.

Video store owners reacted hysterically, accusing the company of greed.

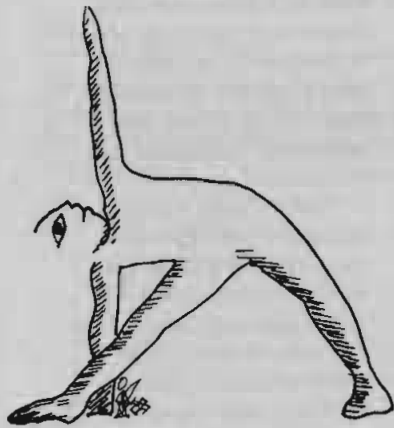
Polaroid has refused to say how the mechanism works but it may employ a signal which automatically erases the tape after a predetermined number of plays.

The Modern Hunter

The people of Barberville, Florida, have passed a law banning the consumption of dead animals found on roadways. The ordinance has been passed specifically against an aged pensioner, Rachel Jackson, to prevent her from dining on squashed dogs, cats, rattlesnakes and armadillos.

Ms Jackson protested that she needed them to eke out her food budget. "I only ever eat freshly killed animals," she said. "These people are forcing me to become a vegetarian."

Words Worth Book Reviews



Yoga & Health Selvarajan Yesudian & Elizabeth Haich \$14.95 Allen & Unwin 8 Napier St, North Sydney

First published in 1953 and reprinted regularly ever since, this book has been one of the best sellers on Yoga throughout the world. It has been translated into eighteen languages and has sold over 2 million copies.

Both authors run a world renowned yoga school in Switzerland.

The ancient science of yoga is as perfect as it is exact and the book is based upon years of experience and hard work. It is designed for people who are unable to go to a yoga school or attend lessons.

Fully illustrated with black and white photos, containing helpful hints for pupils and chapters covering 'What is Prana?', 'Every Disease has Mental Causes', 'Complete Breathing', 'The Constructive Power of Consciousness' and much more.

A very interesting, readable and easily understood book. I recommend it to anyone who wants to practise yoga but are unable to attend classes.

Tjukurrpa

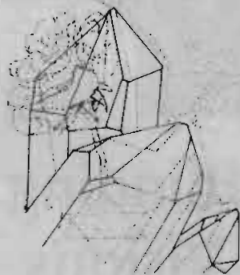
Desert Paintings of Central Australia Photography by Claude Coirault

\$22 Centre of Aboriginal Arts
86/88 Todd St, Alice Springs
NT 5750

The paintings photographed in this book represent Aboriginal communities from a wide reaching area around Alice Springs. Works from the Pitjantjatjara, Warrpiri, Luritja, Anmatjera and Aranda tribes are shown in this beautifully photographed and presented book. Most of the artists represented are associated with the Centre for Aboriginal Artists in Alice Springs.

The book shows photos of the artists at work, the desert and bush that is their inspiration and stories to explain the meanings of the paintings, recorded first hand.

Beautiful photography by Claude Coirault, forward by Roslyn Premont and Mark Lennard.



The Crystal Visionary Book by Michael Ney

\$16.95 Aquarian Media
P.O.Box 566, Milson's Point

Michael Ney has compiled all the best from his quarterly magazine *The Crystal Visionary* to produce this book.

Full of graphics and photos and articles on just about every topic you can think of to do with crystals, the book is compact and interesting.



Women's Health:

A Spare Rib Reader
Edited By Sue O'Sullivan
\$19.95 Allen & Unwin

Spare Rib had its beginnings as a 'women's health issues' magazine. *Women's Health* is a compilation of all the best issues covered since the magazine's beginnings in early 1970. The collection in this book gives important practical help and facts on all areas of women's health - cervical cancer, infections, PMT, menopause, all areas of birth control, abortion, feminism and more.

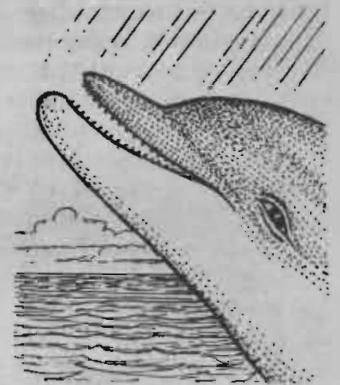
Other related topics are women's self-help movements, political analysis and a concise overview of the fast-developing feminist challenge to traditional ideas about health. Disasters like AIDS and Bhopal are discussed, along with their implications on a global level.

Compiled from a variety of *Spare Rib* writers, the whole book gives a clear intelligent, humorous and often moving look at health issues concerning women-folk.

Behind The Dolphin Smile by Richard O'Barry \$US16.95 Algangauin Books of Chapel Hill

North Carolina 27515-2225
Richard O'Barry, trainer of the T.V star 'Flipper' (in fact five dolphins were trained for the part) started his career as a diver for sunken treasure, then began capturing, training and showing dolphins at Miami Seaquarium.

Behind the Dolphin Smile came about as a result of O'Barry's experiences schooling Flipper. He realised that dolphins should be left free in their ocean environment and became involved in the Oceanic Research Communication Alliance (ORCA) to prepare two captive dolphins resume their life in the wild.



The Dragon Book

By Poorneta Sar-
aswati

\$4.95 Printed at Satyam
Graphics
Mangrove Mountain 2250

Written, illustrated, published and distributed by an independent Australian author, this book is designed for colouring in. Bound with a novel opening clip, the pages can be removed for colouring and are easily reinserted.

The story is simple and easy for parent and child to engross themselves in. A great (and inexpensive) book to "do" or read with the kids; a tale of a different dragon.



Tale of the Scorpion

by Harvey Barnett
\$24.95 Allen & Unwin

Harvey Barnett joined ASIO in 1976 on the invitation of the then Director-General Mr Justice Woodward. He succeeded him in this position during the dramatic expulsion of KGB spy, Valeriy Ivanov, whose involvement with Canberra lobbyist David Combe led to the Hope Royal Commission.

The second Commission ran for 18 months, spotlighting ASIO's role and raising basic questions about Australia's intelligence services, bringing into question whether Australia is a target for international espionage, terrorism and political violence.

Tale of the Scorpion is the first inside view of the organisation by a professional intelligence officer, looking at espionage activity in Australia, the staff at ASIO and whether we need a security service in this country. Harvey Barnett is the only Australian to have served at senior level in two of Australia's major intelligence collection services (ASIS 1957-76).

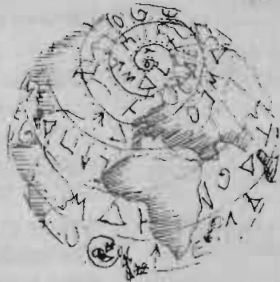
".....these agents of influence cover a broad spectrum of social relationships from casual luncheon partners to close personal friendships. They may be politicians, government servants, industrialists and bankers, journalists or professors... Their only claim to be singled out by the KGB for personal cultivation is the fact that, in one way or another, they can exert some influence in their own societies".

Neo-Humanism A vision for a new world

Avadhutika Anandamitra Acarya
\$8.00 Prout News, 167 Addison Rd
Marrickville 2204

At this point in history we are in a complex web of social, political, economic, ecological and moral crises. They threaten our human systems and structures and our slim thread of life. We, as a race, are at a point of evolutionary examination that requires we change our selfish, greedy ways or put the planet to a collective death. Time has come to move on to a new stage of evolution.

This book provides a hopeful perspective on how we can achieve solutions as individuals and collectively.



Sexual Advances

The latest developments in sex and fertility
By Anthony Bourne
\$14.95 Allen & Unwin

Mainly for the general public, this book is designed to educate and broaden our understanding of sex and fertility.

Dealing with new advances and breakthroughs, the book is an up to date manual covering topics on trans-sexuality, homosexuality, puberty, premenstrual syndrome, menopause, infertility, miscarriage, embryonic and foetal development, birth, post natal depression, lifestyles, IVF technology, sex and injury, birth control, genetic engineering and many related topics.

Tape Reviews



O'She Annia - Legend of the Golden Dolphin

by Darmin \$16. P.O. Box 404, Byron Bay 2481

Composed and produced by Darmin, *O'She Annia* is the tale of the interplanetary journey of O'She and her race of Dolphins to Earth. The music incorporates the sounds of splashing waves, chimes, bird noises and the dolphin call, interspersed with human voice.

The music transports you to the stars and takes you on

a journey through the galaxies with these cetaceans with tracks such as The Starship, Beyond the Dogstar, Millenia in Paradise, Gaia Love Chant and more.

The tape is different from most ambient music, with a strong message of love for Gaia. Turn it on, sit back, close your eyes and let the meditative music take you on an inward journey.

Secret Society

This is Secret Society's first album release. Recorded at Bush Trax studio in Nimbin, "*Secret Society*" is the first independent C.D. released in Australia and the first "C.D. only" in the world (released before album or single).

The album has all the right ingredients for success. The music is well tuned to appeal to all ages and tastes.

The great difference with this band is the level of global consciousness that is expressed in the lyrics, issues that concern all beings on Earth; mainly written by Neil Pike and Tim Tonkin.

Originating in Nimbin in Northern N.S.W., Secret Soci-

Album, C.D. & Tape Available in Record Stores

ety have already released a single, "When The Clock Breaks Down" written by Neil Pike (see issue No 4). The lyrics of this album prove that a strong, globally aware message can come across, carried within the music, making you stop and really listen.

There's not been an album like this released for some time, solid rock with meaning and relevance to the world we have created today. Secret Society have potential to be global messengers like Sting and Lennon and are compelling and dynamic.

Secret Society have musical diversity and talent which deserves total success.

Psycho-Kinesis

No 4 of a series of tapes in a 'Parapsychological Primer Series'. For the absolute beginner in Psychokinesis (moving objects with the mind), this hour-long tape clearly explains a method of concentrating your mental abilities.

Each tape in the series tries to sidestep philosophy

Moving Things Without Touch!

\$7.95 Box 97, Tamworth 2340

and hysteria surrounding these topics, to leave the listener as free as possible to make their own choices. We have all experienced "odd" things happening in our realities; these tapes give some explanations.